



February 14, 2018

Mr. Dan Searcy
Manager, Compliance Division
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

SUBJECT: TITLE V COMPLIANCE REPORTS FOR THE OXNARD LANDFILL

Dear Mr. Searcy:

The Ventura Regional Sanitation District (VRSD) submits the attached Title V compliance reports for the Oxnard Landfill, Title V Permit Number 01399. A copy of this letter has also been submitted to the Air Quality Division of the United States Environmental Protection Agency, Region IX.

This submittal includes the following attachments:

1. Semi-Annual Emissions Guidelines (EG) and Title V Report for July 1, 2017 to December 31, 2017;
2. Semi-Annual Startup, Shutdown and Malfunction (SSM) Plan Report for July 1, 2017 to December 31, 2017;
3. Annual Title V Compliance Certification for January 1 to December 31, 2017
4. Supplemental information historically submitted with Title V Semi-Annual Reports.

Attachment 1 includes the Semi-Annual EG report/TV report.

A separate Responsible Official's Certification Form is included in Attachment 2 for the SSM Plan Report. Attachment 2 also includes a summary table of all SSM events and the individual SSM Plan Forms.

Attachment 3 includes the Annual Title V Compliance Certification. Attachment 3 also includes the Annual Deviation Summary Form, Permit Attachment Form, and Flare Source Test Summary Form.

Attachment 4 includes supplemental information that has been historically provided to the Ventura County Air Pollution Control District (VCAPCD), but is not specifically required as part of the Annual Compliance Certification Report or the Semi-Annual Monitoring Report. This attachment includes the surface monitoring logs, monthly landfill throughputs, and opacity compliance form.

This submittal is made in accordance with Title 40 Code of Federal Regulations (CFR) Part 70.5, State Operating Permit Programs. The attached reports satisfy the requirements under the Oxnard Landfill's Title V Permit, VCAPCD Rule 74.17.1, and the National Emission Standards for Hazardous Air Pollutants for municipal solid waste landfills (40 CFR Part 63, Subpart AAAA).

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The SSM Plan Report also satisfies the requirements under the 40 CFR 63.10(d)(5). For this reporting period, the actions taken during all SSM events were consistent with the procedures in the SSM Plan at the facility. There were no instances where the SSM Plan was not adequate for the situation.

If you have any questions or require additional information, please contact me at (805) 658-4675 or Edward Pettit at (805) 207-2218.

Sincerely,



Matt Baumgardner
Director of Operations
Ventura Regional Sanitation District

Attachments

1. Semi-Annual EG/Title V Report for July 1, 2017 to December 31, 2017
2. Semi-Annual Startup, Shutdown and Malfunction Plan Report for July 1, 2017 to December 31, 2017
3. Annual Title V Compliance Certification for January 1, 2017 to December 31, 2017
4. Supplemental Information Historically Submitted with Title V Reports

Copy: United States Environmental Protection Agency, Region IX

ATTACHMENT 1
SEMI-ANNUAL EG/TITLE V REPORT

**Second Semi-Annual 2017 Title V Report
and Emissions Guidelines (EG) Report
Oxnard Landfills
Oxnard, California**



From:

Ventura Regional Sanitation District

1001 Partridge Drive, Suite 150
Ventura, California 93003

For Submittal to:

Ventura County Air Pollution Control District

669 County Square Drive
Ventura, California 93003
(805) 645-1421

February 2018


SEMI-ANNUAL TITLE V REPORT OF REQUIRED MONITORING

Ventura County APCD Rule 33.9 requires that "any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official." Therefore, this form shall be signed by the company's Responsible Official and submitted with all such reports, including, but not limited to semi-annual reports, deviation and emergency reports and any periodic reports required by a Part 70 permit. However, when submitting your Annual Compliance Certifications, please use the form titled Annual Compliance Certification Signature Cover Form. Semi-annual reports, deviations and emergency reports and any periodic reports required by your Part 70 permit should be submitted to:

Daniel Cho
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this compliance certification are true, accurate, and complete.

Signature and Title of Responsible Official: Title: Matt Baumgardner Director of Operations	 Date: 2/14/18
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Time Period Covered by the Semi-Annual Report of Required Monitoring: 07/01/2017 to 12/31/2017

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1.0 INTRODUCTION

This semi-annual Title V and Emissions Guidelines Report for the Oxnard Landfills (OLF or Landfill) is being submitted by the Ventura Regional Sanitation District (VRSD) to the Ventura County Air Pollution Control District (VCAPCD) in compliance with the following:

- VCAPCD Rule 74.17.1
- Sections within 40 Code of Federal Regulations (CFR) Part 60, Subpart WWW ("NSPS"), including 40 CFR 60.757(f), which describe the items to be submitted in a semi-annual report for landfills seeking to comply with NSPS using an active collection system
- In compliance with 40 CFR 63, Subpart AAAA (National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Landfills), the NSPS annual report is submitted semi-annually
- To fulfill the semi-annual reporting requirement under the facility's Title V permit (No. 07340)

The semi-annual report includes the following information, as required by VCAPCD Rule 74.17.1 and 40 CFR 60.757(f), for the reporting period from July 1 through December 31, 2017:

- Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d).
- Description and duration of all periods when the gas stream is diverted from the control device.
- Description and duration of all periods when the control device was not operating for more than 1 hour.
- All periods when the collection system was not operating in excess of 5 days.
- The location of each of the 500 parts per million by volume (ppmv) methane exceedances, and the concentration recorded at each location for which an exceedance was recorded in the previous month.
- The date of installation and the location of each well or collection system expansion added to the existing system pursuant to 40 CFR 60.755 paragraphs (a)(3), (b), and (c)(4).

2.0 BACKGROUND INFORMATION

2.1 OWNER AND OPERATOR INFORMATION

OLF is operated by VRSD. The facility consists of three separate parcels/municipal solid waste (MSW) disposal sites: Bailard Landfill, Coastal Landfill, and Santa Clara Landfill. VRSD owns the Bailard and Coastal Landfills. The City of Oxnard owns the Santa Clara Landfill. The facility is located in Oxnard, California at the following address: Oxnard Landfills, 4105 W. Gonzales Road, Oxnard, California 93036.

OLF is located in western Ventura County in the city of Oxnard, near the interstation of the Santa Clara River and the Ventura Freeway (Highway 101). The landfills are closed and have not received refuse since 1996. The Santa Clara Landfill was closed in 1982 and subsequently developed as the River Ridge Golf Course. In 2000, a landfill gas (LFG) collection system and control system (GCCS) was installed in each of the landfills, and two 40.5 million British Thermal Units per hour (MMBtu/hr) Sur-Lite LFG-fired enclosed flares (Flare No 1 and 2) located at the Coastal Landfill serves the three LFG GCCSs. In 2010, Flare No. 2 was removed from service and will be used for parts for Flare No. 1.

2.2 DESCRIPTION OF LANDFILL GAS COLLECTION AND CONTROL SYSTEM

The LFG GCCS's installed at the OLF is shown in the site plan provided in Appendix A, and consists of the following components:

- Vertical extraction wells and horizontal trench collectors.
- A system of lateral piping which connects the vertical wells and trench collectors to a main header system.
- A main collection header, which transports LFG to the control devices.
- A 40.5 MMBtu/hr Sur-Lite Model Sacramento LFG flare (No. 1)
- LFG Particulate Scrubbers, condensate collection and storage tanks, and electric powered blowers system

The purpose of the GCCS is to minimize potential environmental impacts associated with LFG, including the following:

- LFG emissions at the landfill surface.
- LFG emissions out of the control devices.
- LFG migration through the vadose zone.

The GCCS removes LFG under a vacuum from the landfill mass. The system collects and controls migrating surface and subsurface gases from the disposal area.

3.0 MONITORING AND RECORDS REQUIRED UNDER NSPS

The following information required to be submitted in the NSPS semi-annual report as referenced in Section 1 is organized in Section 3 as follows:

- Continuously Monitored Parameters
 - Wellhead Monitoring Data
 - Flare Station Monitoring Data
 - Description and Duration of Periods when Gas was Diverted from the Control System
 - Minimum Flare Temperature
 - Control System Downtime
 - Collection System Downtime
- Surface Emissions Monitoring Data
 - Annual Monitoring
- Cover Integrity Monitoring
- Gas Collection System Installations and Upgrades
- Performance Testing
 - Source Test Results
- Title V Compliance

3.1 CONTINUOUSLY MONITORED PARAMETERS

Applicable parameters continuously monitored under 40 CFR 60.756(a), (b), (c), and (d), include the following which should be monitored:

- Pressure applied to the extraction wells via the gas collection header should be monitored on a monthly basis. A vacuum must be maintained at each wellhead to be in compliance with 40 CFR 60.753 (b).
- Nitrogen or oxygen content of LFG at the wellheads should be monitored on a monthly basis. Nitrogen must be less than 20% or oxygen less than 5% to be in compliance with 40 CFR 60.753 (c).
- Temperature of the LFG at the wellheads should be monitored on a monthly basis. Temperature must be maintained below 55 degrees Celsius (C) [131 degrees Fahrenheit (F)] to be in compliance with 40 CFR 60.753 (c).

- A temperature monitoring device with a continuous recorder shall be installed at the flare station. The temperature monitoring data are used to demonstrate when the flare is on or off-line and that flare is meeting minimum temperature requirement. The flare monitoring device must be operating continuously to be in compliance with 40 CFR 60.756 (b) or (c).
- A gas flow rate measuring device, which records flow at least once every 15 minutes, must be installed at the flare station. The flow rate monitoring data are used to determine amount of time the LFG collection and control systems are on-line. The flare monitoring device must be operating continuously to be in compliance with 40 CFR 60.756 (b) or (c) and to show that the flare and/or other control device is on-line at any time that the collection system is operating (in compliance with 40 CFR 60.753 (e) and (f)).

3.1.1 Wellhead Monitoring Data

Wellhead monitoring data from the monthly monitoring events during the reporting period included wellhead vacuum, oxygen content of LFG at the wellheads, and the temperature of LFG at the wellheads. These data provide the following information regarding compliance with 40 CFR 60.753:

- During the reporting period, all operation of extraction wells had negative pressure, except for thirteen (13) events. Per CFR 60.755 (a)(3), corrective action and re-monitoring was taken, and ten (10) wells were corrected within 15 days. Three (3) events triggered repairs, new parts, and adjustments to the wellfield under the NSPS 120-day timeframe for repair or replacement and the wells were subsequently corrected. The dates and duration when wells were under positive pressure are detailed in Table 1 below.

Table 1. Summary of Wells with Positive Pressure

Well	Initial Date	Initial Pressure (in H ₂ O)	Re-Monitoring Date (s)	Compliant Pressure (in H ₂ O)	Duration (Days)
SC W-16	9/19/17	0.14	9/19/17 10/27/17	-0.01	38
SC W-18	9/19/17	0.04	9/19/17 10/23/17	-0.02	33
SC W-20	9/19/17	0.06	9/19/17	-0.2	1
VC-14	9/20/17	0.0	9/20/17	-0.13	1
VC-15	9/20/17	0.09	9/20/17	-0.05	1
VC-16	9/20/17	0.04	9/20/17	-0.09	1
VC-19	9/20/17	0.14	9/20/17	-0.1	1
VC-21	9/20/17	0.0	9/20/17	-0.08	1
VC-28	9/20/17	0.08	9/20/17 10/27/17	-0.22	36
WBT0WAV4	10/18/17	0.0	11/1/17	-0.03	13
WBT0WAV7	12/19/17	0.08	12/19/17	-0.01	1
WBTWAV10	12/19/17	0.06	12/19/17	-0.02	1
WBTWAV30	12/19/17	0.1	12/19/17	-0.03	1

- During the reporting period, all wells were operated with LFG temperatures less than 55 degrees C (131 degrees F), which demonstrates compliance with the EG per 40 CFR 60.755(a)(5).
- During the previous reporting period, one (1) well was pending corrective action in the 120-day period for an oxygen exceedance. Well SC W-18 could not be corrected for high oxygen on June 22, 2017. It was corrected on August 25, 2017 (0.9%) within 120 days.
- During the reporting period, all operational extraction wells had oxygen contents of less than 5%, except thirty-seven (37) events. Per CFR 60.755 (a)(5), corrective action and re-monitoring was taken and nineteen (19) of thirty-seven (37) wells were corrected within 15 days. Please note there were five (5) wells where a 15-day re-monitoring event was not performed. Seventeen (17) wells triggered repairs, new parts, and adjustments to the wellfield under the NSPS 120-day timeframe for repair or replacement and the wells were subsequently corrected within the timeline allowed. One (1) well is pending correction within the 120-day timeframe. Dates and duration when oxygen at the wellheads were above 5% are summarized in Table 2 below.

Table 2. Summary of Wells Above 5% Oxygen

Well	Initial Date	Initial Oxygen	Re-Monitoring Date (s)	Compliant Oxygen	Duration (Days)
		(% O2)		(% O2)	
EBT-BV8	7/12/17	13.1	7/13/17 7/27/17 8/8/17	4.7	27
EBE-ED3	7/13/17	6.3	7/13/17	1.7	1
WBT-WAV4	7/13/17	15.3	7/13/17 7/27/17 8/9/17 8/14/17	4.5	32
WBT-WAV06	7/13/17	19.4	8/9/17 8/14/17 8/17/17 9/28/17	0.7	76
WBT-WAV09	7/13/17	13.3	7/13/17 7/27/17 8/8/17	2.3	26
WBT-WAV10	7/13/17	20.5	7/13/17 7/27/17 8/8/17 8/9/17 8/14/17 8/17/17 9/12/17	2.6	61
EBT-BV7	8/8/17	6.1	8/9/17	2.1	1
EBE-ED3	8/9/17	5.6	8/14/17	4.7	5
WBT-WAV7	8/9/17	8	8/14/17	4.9	5

Well	Initial Date	Initial Oxygen (% O2)	Re-Monitoring Date (s)	Compliant Oxygen (% O2)	Duration (Days)
WBT-WAV30	8/9/17	7.9	8/14/17	0.1	5
VC-2	8/29/17	20.8	8/29/17 8/31/17 9/20/17 10/27/17	3.4	58
VC-15	8/29/17	10.8	8/29/17	4.8	1
VC-28	8/29/17	9.3	8/29/17 8/31/17 9/20/17 10/27/17	3.3	58
VC-111	8/29/17	9.5	8/29/17	0.9	1
SC-W18	8/31/17	15.7	9/19/17	3.4	19
WBT-WAV09	9/12/17	9.1	10/18/17	0.9	36
SC-W19	9/19/17	5.2	10/23/17	3.8	34
EBT-BV7	10/18/17	8.6	10/20/17	4.1	2
EBT-BV8	10/18/17	11	10/20/17	10/20/17 11/1/17 11/3/17	15
EBT-BV9	10/18/17	5.9	10/20/17	0.2	2
WBT-WAV10	10/18/17	20.5	10/20/17 11/1/17 11/3/17 11/8/17	1.4	21
SC-W18	10/23/17	9.8	11/24/17 12/28/17 1/16/18 1/25/18	2.8	94
EBE-ED3	11/1/17	6.4	11/3/17	3.4	2
EBT-BV7	11/1/17	7.6	11/3/17	4.1	2
EBT-BV9	11/1/17	8.9	11/3/17	4.8	2
WBT-WAV7	11/1/17	10.8	11/3/17	4.8	2
WBT-WAV06	11/1/17	9.7	11/3/17	3.7	2
WBT-WAV09	11/1/17	8.2	11/3/17	0	2
EBS-C5S	11/3/17	8.8	11/11/17	0.9	8
VC-28	11/22/17	10.5	12/23/17 12/28/17 1/18/17	1.4	56
VC-22	11/29/17	19.1	12/23/17	0.3	24
EBT-BV8	12/19/17	12.1	12/19/17 12/26/17	2	7

Well	Initial Date	Initial Oxygen (% O2)	Re-Monitoring Date (s)	Compliant Oxygen (% O2)	Duration (Days)
EBT-BV9	12/19/17	8.3	12/19/17 12/26/17 12/29/17 1/11/18	0.7	23
WBT-WAV7	12/19/17	15.2	12/19/17 12/26/17 12/29/17 1/15/18	4.2	26
SC-W16	12/29/17	17.7	12/29/17 1/16/17	0.1	18
WBT-WAV09	12/19/17	5.3	12/19/17	4.8	1
WBT-WAV10	12/19/17	10.4	12/19/17 12/26/17 12/29/17	10.1	Pending

Wellhead readings for wells that were off-line due to maintenance, active filling or on-site construction activities; taken offline for well Startup, Shutdown, and Malfunction (SSM) events; and/or shut-off to control increased well temperature to prevent a subsurface fire as exempt under 40 CFR 60.753(b), were excluded from the above review.

3.1.2 Flare Station Monitoring Data

A temperature monitoring device with a continuous recorder and a LFG flow rate monitoring device which records flows at least every 15 minutes is installed at the flare station. The monitoring records are summarized and kept on file at the landfill. During the reporting period, the gas collection system was operated in compliance with the requirement to operate the system such that all collected gases are vented to a control system (40 CFR 60.753 (e)), and the requirement to operate the control or treatment system at all times when the collected gas is routed to the system (40 CFR 60.753 (f)). The flare station is equipped with an automatic shutdown and alarm system, which shuts down the blowers and closes a valve on the main header pipe whenever the flare shuts down. This ensures that no collected LFG is vented to the atmosphere untreated.

Missing or invalid monitoring data can potentially be a deviation for the minimum temperature requirement for the flares if one or more hours of data in a 3-hour block is missing or invalid as defined by more than 15 minutes of missing and/or invalid data in an hour. There were no occurrences during the reporting period where there was a loss of data except during SSM events.

3.1.3 Description and Duration of Periods when Gas was Diverted from Control System

As noted above, flare station blowers automatically shut down whenever the flare shuts down. Thus, collected LFG was at no time diverted from combustion at the control device during the reporting period.

3.1.4 Minimum Flare Temperature

The 2016 annual source test for the flare was performed on June 6, 2016, and the source test report was submitted on July 1, 2016 with a temperature at 1,502 degrees F. During the reporting period from July 1 through December 31, 2017, the minimum temperature at which the flare should operate was 1,452 degrees F (1,502 degrees F – 50 degrees F).

The average temperature for the flare for a three (3)-hour time period cannot fall below the established minimum temperature except during periods of SSM. Note that the permitted minimum temperature for the flare is 1,100 degrees F, which is below the minimum under the NSPS.

During the reporting period, the average temperature for the flare did not drop below the established minimum NSPS temperature, excluding SSM events.

3.1.5 Control System Downtime

The GCCS's at the OLF route all LFG to the blower/flare station. Collection system shutdown occurs when the blower/flare station are shut down. If this occurs, all exit valves automatically shut and LFG would not be vented to the atmosphere.

Blower/flare station shutdowns (for more than one hour) occurred at various times during the reporting period of July 1 through December 31, 2017 due to the following reasons:

- Utility trip
- Scheduled or unscheduled flare or collection system maintenance/repair

Therefore, at no time was the collected LFG emitted without destruction during the reporting period. Also in no instances did free venting of LFG occur during the reporting period. Individual flare station shutdowns exceeding 1 hour in duration are included in Table 3 below.

Table 3. Summary of Flare Downtime Greater than 1 Hour

Control System Periods of Downtime Exceeding 1 Hour		
Date	Duration	Reason for Shutdown
	(Hrs:Min)	
7/16/17	1:48	Flare shutdown due to utility trip
8/16/17	9:26	Flare manually shutdown for scheduled air compressor installation, replacement of flame arrestor element and landfill gas (LFG) supply header
8/18/17	4:19	Flare manually shutdown for scheduled flare LFG supply header maintenance and blower #2 troubleshooting
12/4/17	7:28	Flare shutdown due to utility trip

3.1.6 Collection System Downtime

At no time in the reporting period was the collection system shut down for more than 5 consecutive days.

3.2 SURFACE EMISSION MONITORING DATA

Landfill surface emissions monitoring ("instantaneous surface sweeps") was performed on an annual basis to measure concentrations of total organic carbon (TOC) as methane using a portable flame ionization detector organic vapor analyzer, which meets NSPS specifications. Annual reports summarizing the monitoring dates, survey pathways, calibration records and results will be kept on file and made available upon request. The results of the monitoring are summarized below. Per 40 CFR 60.756(f), any closed landfill that has no monitored exceedances of the operational standard in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring.

3.2.1 Annual Monitoring

The 2017 annual instantaneous surface emissions monitoring event was performed by RES Environmental, Inc. (RES) at the landfills on the dates shown below:

- Bailard Landfill: August 15, 17, and 21, 2017
- Coastal Landfill: December 22, 2017
- Santa Clara Landfill: December 22 and 26, 2017

The 2017 annual instantaneous surface emissions monitoring event was performed on the above listed dates by RES. The events resulted in zero (0) areas of the landfill having TOC concentrations above 500 ppmv, measured as methane. There were no areas which triggered the NSPS 120-day timeline to implement a system expansion.

3.3 COVER INTEGRITY MONITORING

Per 40 CFR 60.755(c)(5), the site must implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis. OLF monitored for cover integrity on a monthly basis during the reporting period (see Appendix B). OLF personnel have been provided direction on the monthly program requirement.

3.4 GAS COLLECTION SYSTEM INSTALLATIONS AND UPGRADES

There were no installations or upgrades during the reporting period at the OLF site during the reporting period.

4.0 PERFORMANCE TEST

The facility is required to perform a source test on the flare once every two years as required by Rule 74.17.1 and an air toxics test once every four years as required by Condition No. 10 of the PTO. The last compliance test for Non-Methane Organic Compounds (NMOC), Nitrogen Oxides (NOx), Sulfur Oxides (SOx), and Carbon Monoxide (CO) for the flare was performed on June 6, 2016.

Performance test summary information on the NMOCs, NOx, SOx, and CO emissions for the flare is provided in Table 4 below.

Table 4. Summary of Source Test Results

Test Date	Parameter	Flare Result	Emission Limit
Flare 06/06/16	NOx Emission Rate (lb/MMBtu)	0.0114	0.06 lb/MMBtu
	CO Emission Rate (lb/MMBtu)	0.144	0.20 lb/MMBtu
	SOx Emission Rate (lb/MMBtu)	0.0023	0.02 lb/MMBtu
	NMOC Emission Rate (ppmv, as hexane @ 3% O ₂)	0.790	20 ppmv
	NMOC Destruction Efficiency (%)	96.1	98%

Note: Compliance with NMOCs is met with 98% destruction efficiency or less than 20 ppmv outlet as hexane@3% oxygen, so compliance was achieved.

Please note that methane destruction efficiency testing under Condition No. 3 from the Title 17 California Code of Regulations section in the PTO was conducted on June 6, 2017. The methane destruction efficiency was 99.99.

5.0 TITLE V COMPLIANCE

During the reporting period, the Landfill performed all required monitoring and maintained the appropriate records except for the following events:

- OLF failed to perform 15-day re-monitoring per 40 CFR 60.753 for of the reporting period for five (5) wellheads displaying exceedances of the oxygen limits as follows:

-WBT-WAV06 on 7/13/17

-SC-W18 on 8/31/17

-WBT-WAV09 on 9/12/17

-SC-W19 on 9/19/17

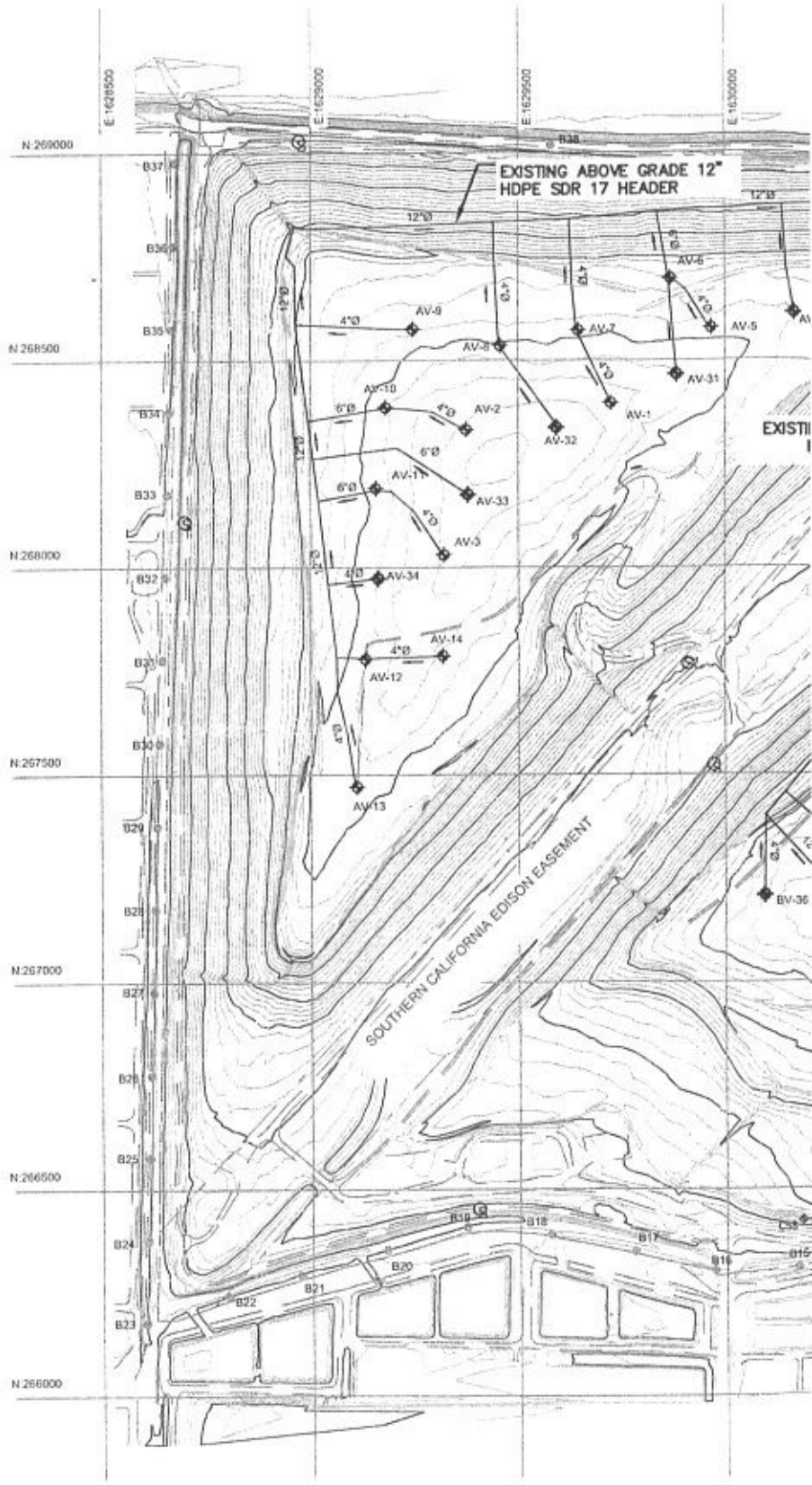
-VC-22 on 11/29/17

Note that all five (5) wells were subsequently corrected within the 120-day timeframe.

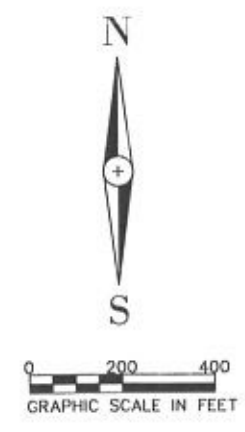
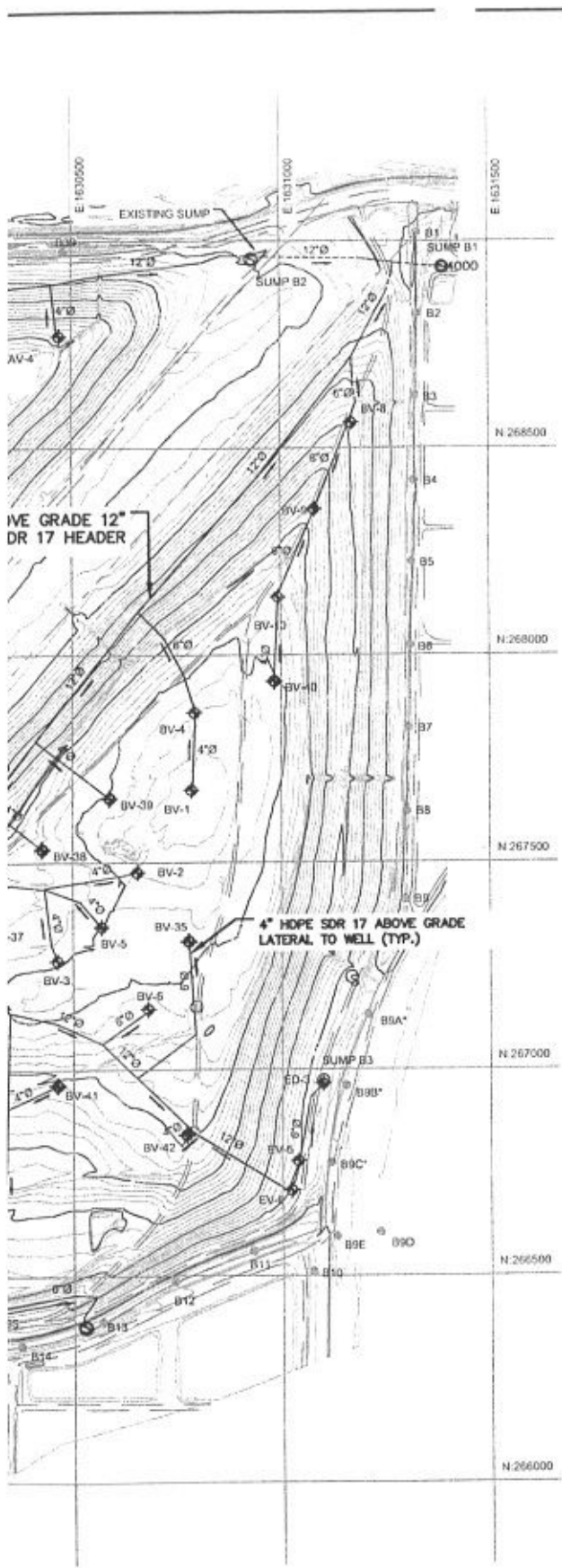
APPENDIX A
LANDFILL SITE PLAN



\\msc\home\p\propbox\jobs\WRSB\Exchange\Ballard\GCCS Map_08-2017.dwg 8/10/17 gskumar@gsd



REV	DATE	DESCRIPTION	DRN BY	DSN BY	CHK BY	CLIENT & O



LEGEND

- BV-5 EXISTING LFG EXTRACTION WELL
- BV-39 NEW LFG HORIZONTAL WELL
- ABOVE GRADE HDPE SDR 17 LFG PIPING
- B12 EXISTING LFG MIGRATION MONITORING PROBE
- PROPERTY BOUNDARY/EASEMENT
- BELOW GRADE SUMPS
-

TOPOGRAPHY NOTE:
 BASED ON SURVEY INFORMATION RECEIVED FROM VENTURA
 REGIONAL SANITATION DISTRICT DATE: 11-30-16.



3500 TOLAND RD,
 SANTA PAULA, CA
 PH: 805-658-4675

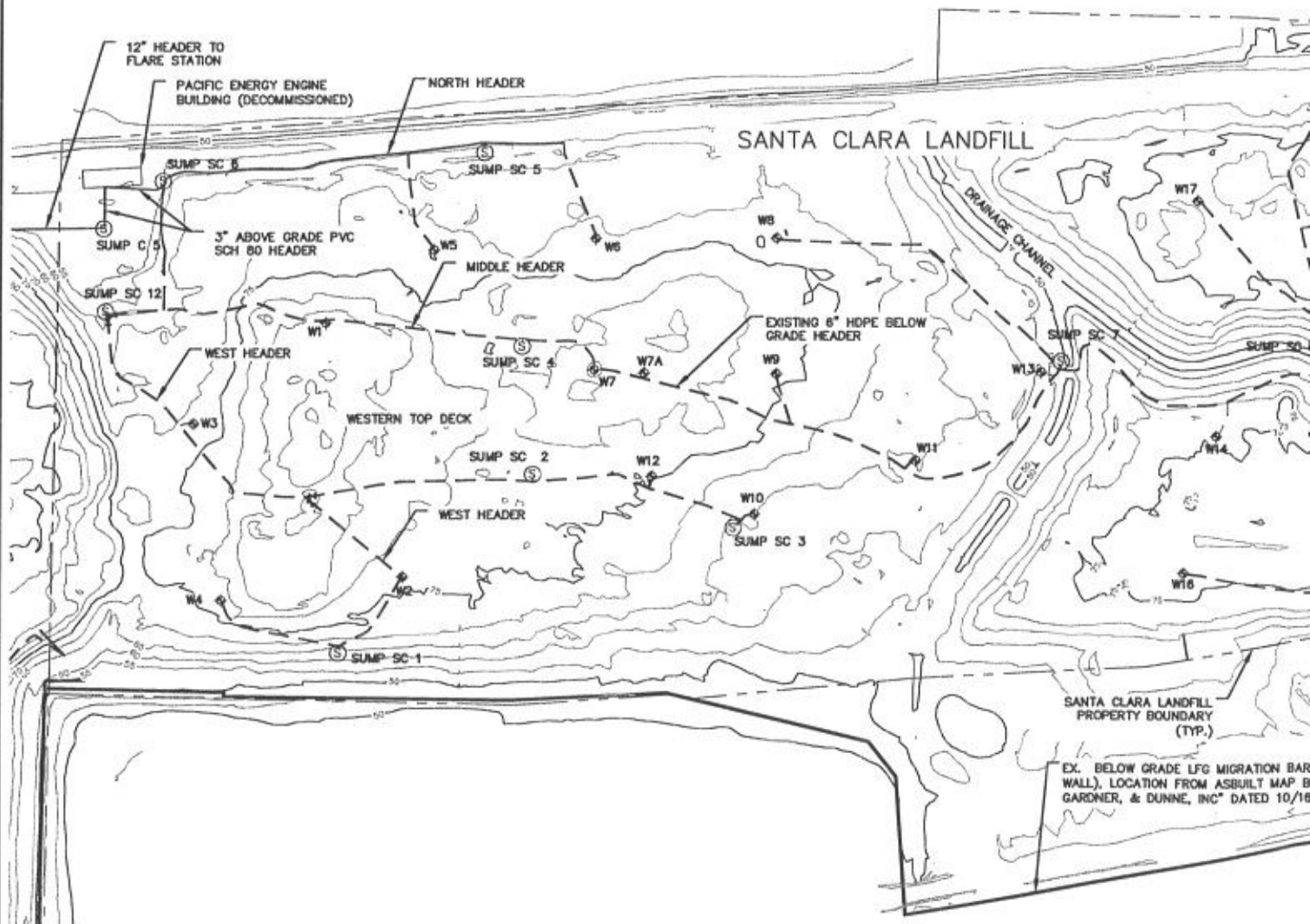
ENGINEER:

**BIOGAS
 ENGINEERING**
 SIGNAL HILL, CA 90755
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 EMAIL: INFO@BIOGASENG.COM

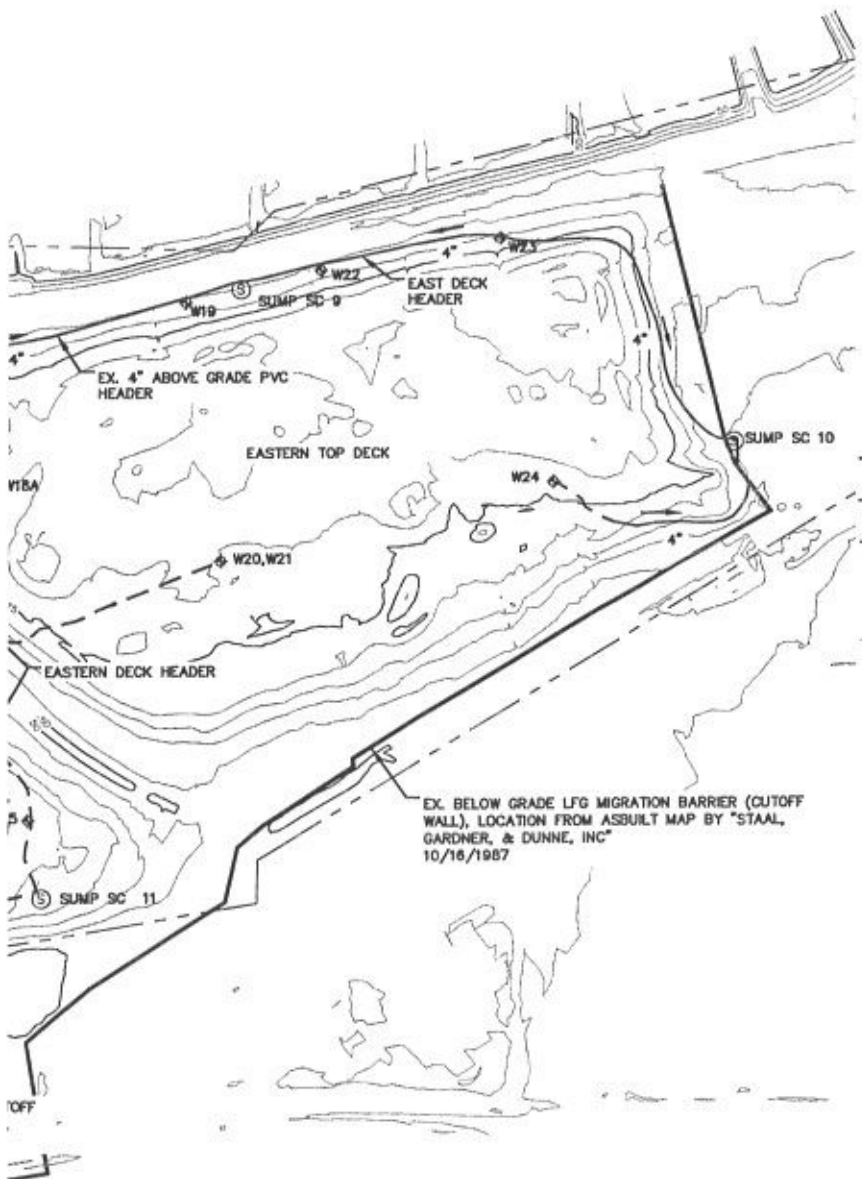
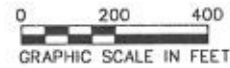
BAILARD EXISTING LFG GCCS MAP

LFG GCCS MAP
 COASTAL, SANTA CLARA AND
 BAILARD LANDFILLS









DRAWING NO.
EX-2
 PROJECT NO.



REV	DATE	DESCRIPTION	DRN BY	DSN BY	CHK BY	CLIENT & OWNER



LEGEND

-  EX. ABOVE GRADE 3" PVC SCH 40 PIPE
-  EX. ABOVE GRADE 4" PVC SCH 40 PIPE
-  EX. BELOW GRADE HDPE PIPE (UNKNOWN SIZE)
-  EXISTING CONTOURS
-  PROPERTY LINE
-  W10 LFG EXTRACTION WELL
-  SUMP SC CONDENSATE SUMP
-  LFG VALVE (TYP.)

EX. BELOW GRADE LFG MIGRATION BARRIER (CUTOFF WALL), LOCATION FROM ASBUILT MAP BY "STAAL, GARDNER, & DUNNE, INC" 10/16/1987



3500 TOLAND RD,
SANTA PAULA, CA
PH 805-658-4675

ENGINEER

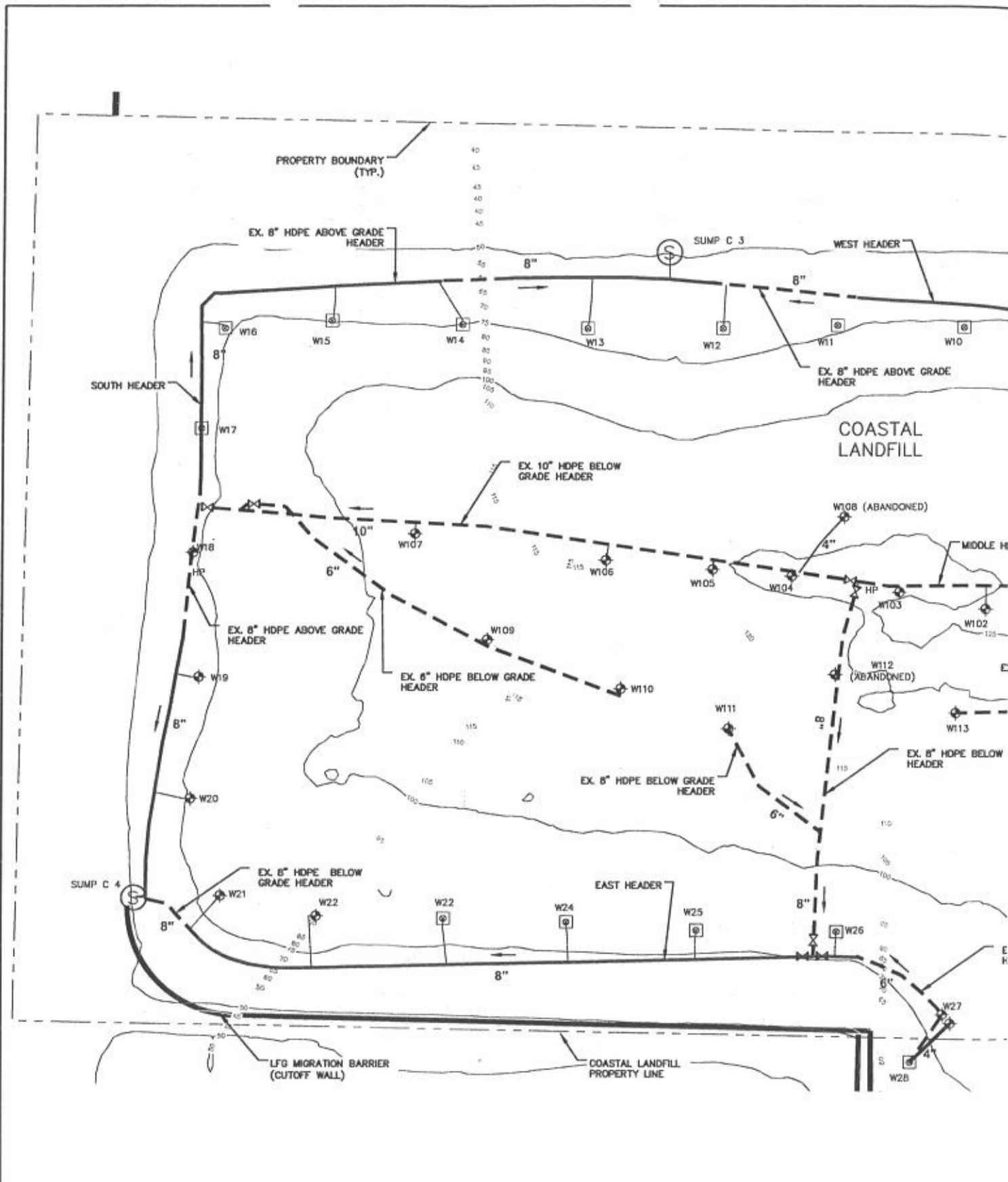
BIOGAS ENGINEERING

SIGNAL HILL, CA 90755
PH (562) 726-3565
EMAIL: INFO@BIOGASENG.COM

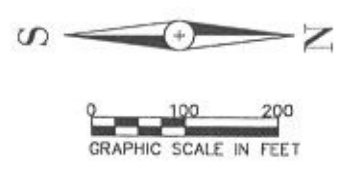
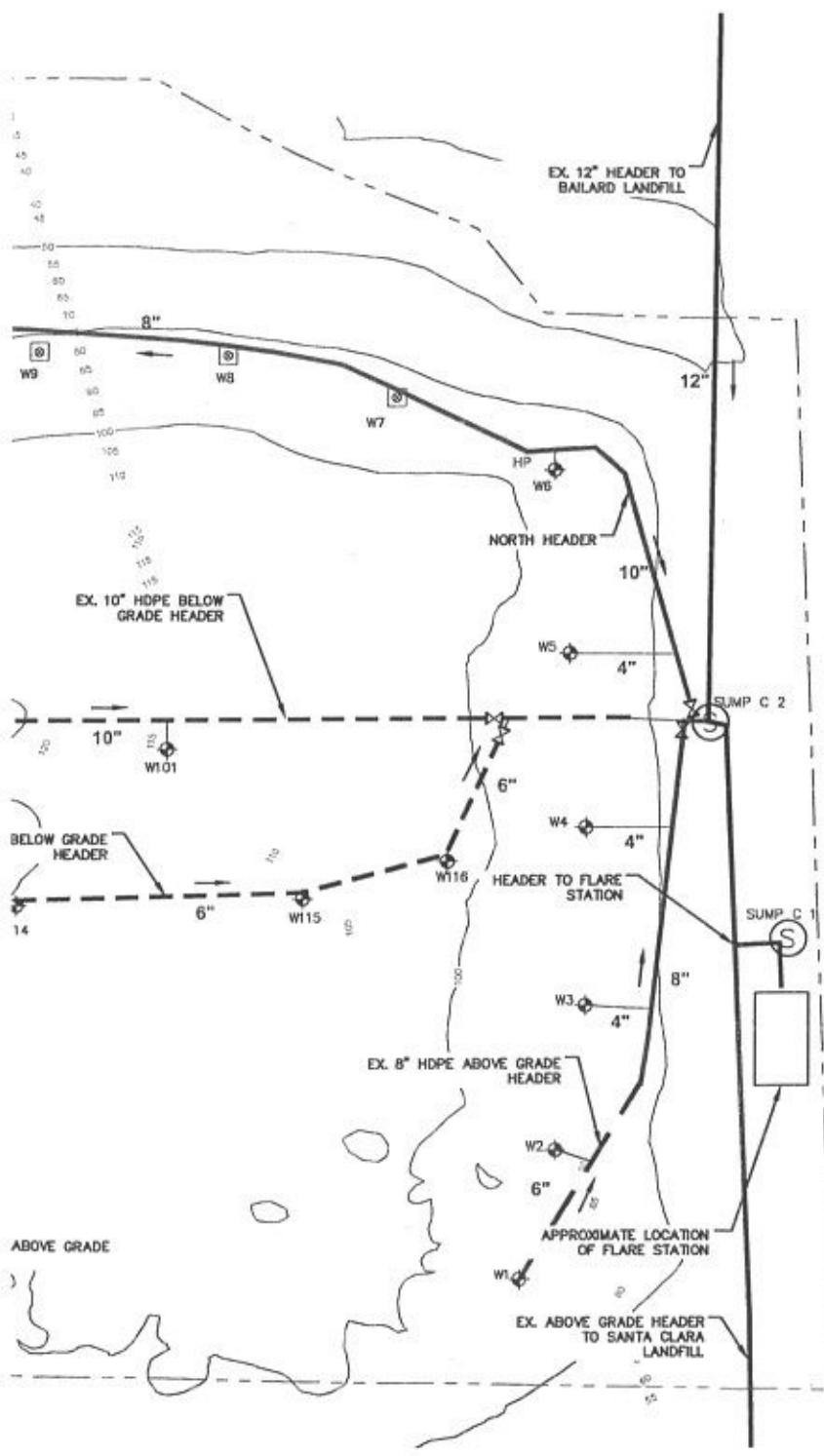
SANTA CLARA LANDFILL GCCS MAP

LFG GCCS MAP
COASTAL, SANTA CLARA AND
BAILLARD LANDFILLS




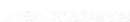





DRAWING NO.
EX-3
PROJECT NO.




REV	DATE	DESCRIPTION	DRN BY	DSN BY	CHK BY	CLIENT & OWN



LEGEND

-  EX. ABOVE GRADE 12" PVC SCH 40 PIPE
-  EX. ABOVE GRADE 10" PVC SCH 40 PIPE
-  EX. ABOVE GRADE 8" PVC SCH 40 PIPE
-  EX. BELOW GRADE HDPE PIPE
-  EXISTING CONTOURS
-  PROPERTY LINE
-  W10 LFG EXTRACTION WELL
-  SUMP C 1 CONDENSATE SUMP
-  LFG VALVE (TYP.)



3500 TOLAND RD.
SANTA PAULA, CA
PH. 805-658-4675

ENGINEER



BIOGAS ENGINEERING
SIGNAL HILL, CA 90755
PH (562) 726-3565
EMAIL. INFO@BIOGASENG.COM

COASTAL LANDFILL GCCS MAP

LFG GCCS MAP
COASTAL, SANTA CLARA AND
BAILARD LANDFILLS

DRAWING NO
EX-4
PROJECT NO

APPENDIX B
COVER INTEGRITY MONITORING

ATTACHMENT 2
SEMI-ANNUAL SSM PLAN REPORT



Ventura County
Air Pollution
Control District

**RESPONSIBLE OFFICIAL'S
CERTIFICATION FORM**

Ventura County APCD Rule 33.9 requires that "any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official." Therefore, this form shall be signed by the company's Responsible Official and submitted with all such reports, including, but not limited to semi-annual reports, deviation and emergency reports and any periodic reports required by a Part 70 permit. However, when submitting your Annual Compliance Certifications, please use the form titled Annual Compliance Certification Signature Cover Form.

Semi-annual reports, deviations and emergency reports and any periodic reports required by your Part 70 permit should be submitted to:

Daniel Cho
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document is true, accurate, and complete.

<p>Signature and Title of Responsible Official:</p> <p>Signature: _____  _____</p> <p>Title: <u>Director of Operations</u></p>	<p>Date: 2/14/18</p>
---	----------------------

ATTACHMENT 1

DESCRIPTION OF SSM EVENTS

Reporting period July 1 through December 31, 2017

Start of Event	End of Event	Total Duration (Hrs:Min)	Equipment Affected*	Type of Event	Description of Event	Were SSM Plan Procedures Followed (Y/N)	Date of SSM Plan Revision to Address Event *
7/16/17	7/16/17	1:48	Flare	Malfunction	Flare shutdown due to utility trip	Y	N/A
8/16/17	8/16/17	9:26	Flare	Shutdown/Startup	Flare manually shutdown for scheduled air compressor installation, replacement of flame arrestor element and landfill gas (LFG) supply header	Y	N/A
8/18/17	8/18/17	4:19	Flare	Shutdown/Startup	Flare manually shutdown for scheduled flare LFG supply header maintenance and blower #2 troubleshooting	Y	N/A
10/3/17	10/3/17	0:20	Flare	Shutdown/Startup	Flare manually shutdown for scheduled flare maintenance	Y	N/A
10/20/17	10/20/17	0:04	Flare	Shutdown/Startup	Flare manually shutdown for rental LFG analyzer removal and re-installation	Y	N/A
12/4/17	12/5/17	7:28	Flare	Malfunction	Flare shutdown due to utility trip	Y	N/A
12/6/17	12/6/17	0:50	Flare	Malfunction	Flare shutdown due to power trip and high PSI alarm	Y	N/A

*Not Applicable if SSM Plan Procedures were followed during event

**Malfunction events assume automatic startup unless otherwise noted

***There were no SSM events for the flare monitoring devices or collection system during the reporting period

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Oxnard Landfills (Bailard, Coastal, Santa Clara)

Date Form Completed: 09/18/2017

Unit ID: Coastal Flare, LFG Collection System

Event: *appropriate box.*

Startup

Shutdown

Malfunction

Date: 07/16/17

Time: Off 11:27 AM On 1:15 PM

Duration: 1 hours 48 minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:

The Coastal Flare shutdown at 11:27 due to a utility grip trip

Provide description of corrective action:

The APCD Breakdown line was called at 12:00 noon by Ricardo Ontiveros. The flare was restarted and operating at temperature by 1:15 PM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

n/a

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

n/a

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

Yes

No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Oxnard Landfills (Bailard, Coastal, Santa Clara)

Date Form Completed: 08/17/2017

Unit ID: Coastal Flare, LFG Collection System

Event: *appropriate box.*

Startup

Shutdown

Malfunction

Date: 08/16/17

Time: Off 7:06 AM On 4:32 PM

Duration: 9 hours 26 minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:

The Coastal Flare was shut off at 7:06 AM for a scheduled new air compressor installation, the replacement of the flame arrestor element, and flare LFG supply header. The flare controls system was LOTO causing (null) data during this time period.

Provide description of corrective action:

APCD was notified on 08-xx-17 at 00:00 AM/PM by Mark Potter. The flare was re-started and operating at temperature by 4:32 PM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

n/a

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

n/a

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

Yes

No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Oxnard Landfills (Bailard, Coastal, Santa Clara)

Date Form Completed: 08/21/2017

Unit ID: Coastal Flare, LFG Collection System

Event: *appropriate box.*

Startup

Shutdown

Malfunction

Date: 08/18/17

Time: Off 6:37 AM On 10:56 PM

Duration: 4 hours 19 minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:

The Coastal Flare was shut off at 6:37 AM for scheduled flare LFG supply header maintenance and blower # 2 troubleshooting with Gautam A. (Biogas), Mark E. (SCS) and Nick S. (ICS).

Provide description of corrective action:

APCD was notified of the flare being off for more than 4 hours on 08-18-17 at 9:42 AM by David Thomas. The flare was re-started and operating at temperature by 10:56 PM. The flare was stopped and started several times during the controls programming validations by SCS. The flare was back to normal operating temperature by 12:03 PM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

n/a

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

n/a

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

Yes

No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Oxnard Landfills (Bailard, Coastal, Santa Clara)

Date Form Completed: 10/04/2017

Unit ID: Coastal Flare, LFG Collection System

Event: *appropriate box.*

Startup

Shutdown

Malfunction

Date: 10/03/17

Time: Off 8:39 AM On 8:59 AM

Duration: 0 hours 20 minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:

The Coastal Flare was shut down at 8:39 AM for schedule flare maintenance. Nick with ICS was onsite tightening motor contactor lugs identified during IR Scan.

Provide description of corrective action:

The flare was restarted and operating at temperature by 8:59 AM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

n/a

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

n/a

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

Yes

No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Oxnard Landfills (Bailard, Coastal, Santa Clara)

Date Form Completed: 10/20/2017

Unit ID: Coastal Flare, LFG Collection System

Event: *appropriate box.*

Startup

Shutdown

Malfunction

Date: 10/20/17

Time: Off 1:00 PM On 1:04 PM

Duration: 0 hours 4 minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:

The Coastal Flare was shut down at 1:00 PM for rental LFG gas analyzer (FAU-TDL) removal and re-installation of repaired unit.

Provide description of corrective action:

The flare was restarted and operating at temperature at 1:04 PM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

n/a

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

n/a

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

Yes

No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Oxnard Landfills (Bailard, Coastal, Santa Clara)

Date Form Completed: 12/05/2017

Unit ID: Coastal Flare, LFG Collection System

Event: *appropriate box.*

Startup

Shutdown

Malfunction

Date: 12/04/17

Time: Off 9:54 PM On 12/5/17 5:22 AM

Duration: 7 hours 28 minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:

The Coastal Flare shut off at 9:54 PM due to a utility trip.

Provide description of corrective action:

The flare restarted and was operating at temperature on 12/5/17 at 5:22 AM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

n/a

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

n/a

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

Yes

No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Oxnard Landfills (Bailard, Coastal, Santa Clara)

Date Form Completed: 12/07/2017

Unit ID: Coastal Flare, LFG Collection System

Event: *appropriate box.*

Startup

Shutdown

Malfunction

Date: 12/06/17

Time: Off 4:12 PM On 5:02 PM

Duration: 0 hours 50 minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:

The Coastal Flare shutdown at 4:12 PM due to a power trip and "High PSI Alarm"

Provide description of corrective action:

The Air Compressor was reset and restarted. The flare was restarted and operating at temperature at 5:02 PM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

n/a

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

n/a

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

Yes

No

ATTACHMENT 3
ANNUAL TITLE V COMPLIANCE CERTIFICATION



Ventura County
Air Pollution
Control District

**ANNUAL COMPLIANCE CERTIFICATION
SIGNATURE COVER FORM**

A copy of each Annual Compliance Certification shall be submitted to EPA, Region 9, at the following address:


Mr. Gerardo Rios, Chief
Permits Office (AIR-3)
Office of Air Division
EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Confidentiality

All information in a Part 70 permit compliance certification is public information. The Part 70 permit is also public information.

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this compliance certification are true, accurate, and complete.

Signature and Title of Responsible Official:  Title: DIRECTOR OF OPERATIONS	Date: 2/14/18
--	---------------

Time Period Covered by Compliance Certification <u>01</u> / <u>01</u> / <u>17</u> (MM/DD/YY) to <u>12</u> / <u>31</u> / <u>17</u> (MM/DD/YY)



Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: 74.17.1N3</p>	<p>D. Frequency of monitoring: Continuous, monthly, quarterly, annual, and bi-annually</p>
<p>B. Description: Rule 74.17.1</p>	<p>E. Source test reference method, if applicable. See Attached Source Test Summary Form</p>
<p>C. Method of monitoring:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Monitor flare gas flow rate and temperature <input checked="" type="checkbox"/> Monitor wells and collection header (temperature, pressure, nitrogen, oxygen). <input checked="" type="checkbox"/> Monitor methane concentration at the surface of the landfill <input checked="" type="checkbox"/> Source test flare every 2 years (NMOG, NOx and CO) 	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>I</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>Y</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: 40CFR63AAAA</p>	<p>D. Frequency of monitoring: Annual, as needed.</p>
<p>B. Description: 40CFR Part 63, Subpart AAAAA</p>	<p>E. Source test reference method, if applicable. See Attached Source Test Summary Form</p>
<p>C. Method of monitoring:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Annual source testing to determine compliance with methane destruction efficiency <input checked="" type="checkbox"/> Develop and implement a Startup, Shutdown, Malfunction Plan (SSMP). 	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: CARB CH4 from MSW</p>	<p>D. Frequency of monitoring: Quarterly, Annual</p>
<p>B. Description: Title 17, CCR, Sections 95460 to 95476, Methane Emissions From MSW Landfills</p>	<p>E. Source test reference method, if applicable. See attached Source Test Summary Form</p>
<p>C. Method of monitoring:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Annual source testing to determine compliance with methane destruction efficiency <input checked="" type="checkbox"/> Quarterly landfill surface monitoring 	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: P01399PC1</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: Condition No. 1 – Rule 26 General Recordkeeping</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Monthly records of throughput and consumption</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: P01399PC1</p>	<p>D. Frequency of monitoring: Annually</p>
<p>B. Description: Condition No. 2 – Rule 29 Solvent Recordkeeping</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Maintain a list of exempt solvents.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: P01399PC2</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: Condition No. 1 – Rule 26 Annual Flare Combustion Limit The annual amount of landfill gas combusted in the flare shall not exceed 350,000 MMBtu per year.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Landfill gas flow rate is recorded by a totalizer continuous temperature recording device and landfill gas flow totalizer</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

<p>A. Attachment # or Permit Condition #: P01399PC2</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: Condition No. 2 – Rule 29, Flare out of Service</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Annual Compliance Certification</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: P01399PC2</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: Condition No. 3 – Rule 26, Flare BACT Limits</p>	<p>E. Source test reference method, if applicable. See attach Source Test Summary Form</p>
<p>C. Method of monitoring: The flare is equipped with a continuous temperature recording device and landfill gas flow totalizer. Source testing every 2 years (ROC, NOx) using EPA test method 25 or 18, 7 and every 4 years (SOx) using modified SCAQMD method 307-94.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: P01399PC2</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: Condition No. 4 – Rule 54</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Source test flare every 4 years for sulfur compounds using EPA test method 6, 6A, 6C, 8, 15, 16A, 16B, or SCAQMD method 307-94, as appropriate.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: P01399PC2</p>	<p>D. Frequency of monitoring: Not Applicable.</p>
<p>B. Description: Condition No. 5 – Rule 57.1</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Not required based on District EPA emission factor analysis.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: P01399PC2</p>	<p>D. Frequency of monitoring: Monthly</p>
<p>B. Description: Condition No. 6 – Rule 26 Flare Equipment Requirements</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Monthly function checks of the flare equipment.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: P01399PC2</p>	<p>D. Frequency of monitoring: Monthly and Annually</p>
<p>B. Description: Condition No. 7 – Rule 26 Calibration Requirements</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Annual calibration and monthly function checks of control and recording of the landfill gas flow totalizer to the flare.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: P01399PC2</p>	<p>D. Frequency of monitoring: As needed</p>
<p>B. Description: Condition 8 – Rule 26 Landfill Gas Control Requirements During Maintenance</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Records of maintenance activities.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: P01399PC2</p>	<p>D. Frequency of monitoring: Every 1000 hours, but not less than 10 years and not more than every 4 years</p>
<p>B. Description: Condition No. 9 & 10 – Rule 51 Toxics Testing and HRA Requirements</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Source testing of the flare for Toxics using APCD approved testing protocol. Refer to the SCEC 2014 Toxic and Criteria Pollutant Source Test Report No 2001.1045.rpt2</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: 50</p>	<p>D. Frequency of monitoring: Ongoing, annually</p>
<p>B. Description: Rule 50 Opacity</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable See Attachment 3</p>
<p>C. Method of monitoring: Routine surveillance and visual inspections of the flare emissions. Annual formal survey of flare emissions.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: 54.B.1</p>	<p>D. Frequency of monitoring:</p>
<p>B. Description:</p> <p>Rule 54.B.1 Sulfur Compounds</p> <p>APCD memos Rule 54, Sulfur Compounds 12/9/97 and SOx Rule Comparison for Combustion of Gaseous Fuel 12/2/97.</p>	<p>Not applicable</p>
<p>C. Method of monitoring:</p> <p>Compliance with Rule 64 ensures compliance with this rule based on District analysis.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: 54.B.2</p>	<p>D. Frequency of monitoring:</p>
<p>B. Description:</p> <p>Rule 54.B.2 Sulfur Dioxide</p> <p>According to APCD memo from Terri Thomas, 5/23/96, subject Rule 54.B.2 compliance is an emission rate of 0.23 lb/hr would produce a 1 hour maximum concentration of 0.06 ppmv and a 24 hour maximum concentration of 0.03 ppmv, 100 meters from stack</p>	<p>Bi-annually</p>
<p>C. Method of monitoring:</p> <p>Exhaust analysis and compliance demonstration. Source test exhaust value of Sulfur Dioxide of 0.045 lb/hr.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: 57.1</p>	<p>D. Frequency of monitoring:</p>
<p>B. Description:</p> <p>Rule 57.1 Particulate Matter Emissions from Fuel Burning Equipment</p>	<p>Not applicable.</p>
<p>C. Method of monitoring:</p> <p>Not required based on District analysis dated 12/3/1997.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



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<p>A. Attachment # or Permit Condition #: 64.B.1</p>	<p>D. Frequency of monitoring: Annually</p>
<p>B. Description: Rule 64.B.1</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Annual fuel gas analysis of hydrogen sulfide by source test using ASTM D4084-94.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: 64.B.2</p>	<p>D. Frequency of monitoring: Not applicable.</p>
<p>B. Description: Rule 64.B.2 Fuel Supplier's Certification</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Fuel supplier's certification is supplied by the fuel manufacturer.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: 76.6</p>	<p>D. Frequency of monitoring: Annually</p>
<p>B. Description: Rule 74.6 Surface Cleaning and Degreasing</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Maintain records of current solvent information.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



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Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: 74.11.1</p>	<p>D. Frequency of monitoring: Not applicable.</p>
<p>B. Description: Rule 74.11.1 Large Water Heaters and Small Boilers</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: There are no large water heaters or small boilers at this location that fall under this rule.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: 74.22</p>	<p>D. Frequency of monitoring: Not applicable.</p>
<p>B. Description: Rule 74.22 Natural Gas-Fired Fan-Type Furnaces.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: There are no natural gas-fired fan-type furnaces at this location that fall under this rule.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: 74.1</p>	<p>D. Frequency of monitoring: As needed</p>
<p>B. Description: Rule 74.1 Abrasive Blasting</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Only Rule 74.1 compliant abrasives are used on site.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



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Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: 74.2</p>	<p>D. Frequency of monitoring: Annually</p>
<p>B. Description: Rule 74.2 Architectural Coatings</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: Maintain VOC records of coatings used. Only coatings that are in compliance with rule 74.2 are used.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: 74.4.D</p>	<p>D. Frequency of monitoring: As needed.</p>
<p>B. Description: Rule 74.4.D Cut Back Asphalt</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: No road oils were applied in 2017.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: 74.28</p>	<p>D. Frequency of monitoring: As needed.</p>
<p>B. Description: Rule 74.28 Asphalt Roofing Operations</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring: No asphalt roofing operations were conducted in 2017.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



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ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #: 74.29	D. Frequency of monitoring: As needed.
B. Description: Rule 74.29 Soil Decontamination Operations	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: No soil decontamination operations were conducted in 2017.	F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 40CFR.61.M	D. Frequency of monitoring: As needed
B. Description: 40 CFR, Part 61, Subpart M – National Emission Standard for Asbestos	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: No asbestos demolition or renovation activities were conducted in 2017.	F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form



Ventura County
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ANNUAL COMPLIANCE CERTIFICATION DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #: 74.17.1 Condition 4(g), 6(a) and (b)	B. Equipment description: LFG Collection Wells	C. Deviation Period: Date & Time Begin: 01/01/17 End: 02/28/17 When Discovered: Date & Time 03/01/17
D. Parameters monitored: Monthly monitoring of LFG collection wells require initiation of corrective action within 5 days and re-monitoring within 15 days for wells with exceedances	E. Limit: < 5% oxygen Negative pressure on wellhead required	F. Actual: Initiation of corrective action within 5 days and re-monitoring within 15 days was not conducted for exceedances in all cases
G. Probable Cause of Deviation: VRSD did not recognize that exceedances of the pressure and oxygen limits required 5-day and 15-day corrective action.		H. Corrective actions taken: VRSD personnel have been instructed on the proper monitoring, reporting, and recordkeeping requirements under this provision.

A. Attachment # or Permit Condition #: Title 17, Section 95469(c)	B. Equipment description: LFG Collection Wells	C. Deviation Period: Date & Time Begin: 01/01/17 End: 02/28/17 When Discovered: Date & Time 03/01/17
D. Parameters monitored: Monthly monitoring of LFG collection wells require initiation of corrective action within 5 days and re-monitoring within 15 days for wells with exceedances	E. Limit: Negative pressure on wellhead required	F. Actual: Initiation of corrective action within 5 days and re-monitoring within 15 days was not conducted for exceedances in all cases
G. Probable Cause of Deviation: VRSD did not recognize that exceedances of the pressure limit required 5-day and 15-day corrective action.		H. Corrective actions taken: VRSD personnel have been instructed on the proper monitoring, reporting, and recordkeeping requirements under this provision.



Ventura County
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ANNUAL COMPLIANCE CERTIFICATION DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #: 74.17.1 Condition 4(g), 6(b)	B. Equipment description: LFG Collection Wells WBT-WAV06, SC-W18, WBT-WAV-09, SC-W19, and VC-22	C. Deviation Period: Date & Time Begin: 07/01/17 End: 12/31/17 When Discovered: Date & Time 02/01/18
D. Parameters monitored: Monthly monitoring of LFG collection wells require re-monitoring within 15 days for wells with exceedances	E. Limit: < 5% oxygen	F. Actual: Re-monitoring within 15 days was not conducted for exceedances for five (5) well events.
G. Probable Cause of Deviation: VRSD did not recognize that 15-day re-monitoring was not performed for the five (5) wells.		H. Corrective actions taken: VRSD personnel have been instructed on the proper monitoring, reporting, and recordkeeping requirements under this provision. All five (5) wells were subsequently corrected with the 120-day timeframe.

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time Begin: End: When Discovered: Date & Time
D. Parameters monitored:	E. Limit:	F. Actual:
G. Probable Cause of Deviation:		H. Corrective actions taken:



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ANNUAL COMPLIANCE CERTIFICATION SOURCE TEST SUMMARY FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Emission Unit Description: 40.5 MMBtu/Hr Sur-Lite Model Sacramento Landfill Gas Flare			B. Pollutant: NMOC
C. Measured Emission Rate: MDE: 99.99 %	D. Limited Emission Rate: MDE: 99 %	E. Specific Source Test or Monitoring Record Citation: Modified EPA Method 25	F. Test Date: June 6, 2017

A. Emission Unit Description:			B. Pollutant:
C. Measured Emission Rate:	D. Limited Emission Rate:	E. Specific Source Test or Monitoring Record Citation:	F. Test Date:

A. Emission Unit Description:			B. Pollutant:
C. Measured Emission Rate:	D. Limited Emission Rate:	E. Specific Source Test or Monitoring Record Citation:	F. Test Date:

A. Emission Unit Description:			B. Pollutant:
C. Measured Emission Rate:	D. Limited Emission Rate:	E. Specific Source Test or Monitoring Record Citation:	F. Test Date:

A. Emission Unit Description:			B. Pollutant:
C. Measured Emission Rate:	D. Limited Emission Rate:	E. Specific Source Test or Monitoring Record Citation:	F. Test Date:

Table 2-1
Summary of Results
Ventura Regional Sanitation District
Coastal Landfill Flare
June 6, 2017

Run	1	2	3	Average	Permit Limit
Oxygen, %	14.8	14.8	15.2	14.9	
Carbon Dioxide, %	5.2	4.8	5.0	5.0	
Flow Rate, dscfm	7,873	7,873	8,424	8,057	
Fuel Flow Rate, scfm	677	677	677	677	
Methane (Outlet)					
ppm, as Methane	1.5	0.8	1.0	1.1	
lb/hr, as Methane	0.029	0.016	0.022	0.022	
Methane (Inlet)					
ppm, as Methane	316340	316340	316340	316340	
lb/hr, as Methane	533	533	533	533	
Methane Destruction Efficiency,					
%	99.995	99.997	99.996	99.990	99
Total Reduced Sulfur Compounds,					
Hydrogen Sulfide, ppm	--	--	9.99	--	
Total Sulfur, ppm as H ₂ S	--	--	10.4	--	
Oxides of Sulfur,					
lbs/hr	--	--	0.072	--	0.41
lbs/MMBtu	--	--	0.0055	--	0.020
Operating Parameters,					
Fuel Flow, scfh	677	677	677	677	
Heat Rate, MMBtu/hr	13.04	13.04	13.04	13.04	
Flare Temperature, F	1499	1499	1499	1499	

ATTACHMENT 4

SUPPLEMENTAL INFORMATION HISTORICALLY SUBMITTED WITH TITLE V REPORTS

**BAILARD LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: A Dusky 26 N. Hershey 20
L. Devol 27
D. Johns 19

Date: 8-15-17 Instrument Used: TVA 1000

Temperature: 72° Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
B1	AD	0810	0825	4.97	1	2	8	
B2	AD	0826	0841	6.06	1	2	8	
B3	AD	0842	0857	4.52	1	2	7	
B4	AD	0857	0912	4.77	1	2	8	
B5	AD	0913	0928	5.09	2	3	9	
B6	AD	0929	0944	5.28	1	2	8	
B7	AD	0946	1001	5.09	3	5	8	
B8	AD	1003	1018	5.32	4	6	8	
B9	AD	1027	1042	5.29	3	5	8	
B10	AD	1044	1059	5.24	4	6	8	
B11	AD	1101	1116	5.63	4	6	8	
B12	AD	1117	1132	5.56	4	6	8	
C12	AD	1134	1149	8.31	4	5	8	
D12	AD	1154	1209	5.60	4	6	8	
D1	DJ	0810	0825	2.31	1	2	8	
D2	DJ	0827	0842	2.67	1	2	8	
D3	DJ	0845	0900	3.53	1	2	7	
D4	DJ	0900	0915	4.43	1	2	8	
D5	DJ	0915	0930	4.36	2	3	9	
D6	DJ	0930	0945	5.19	1	2	8	
D7	DJ	0946	1001	5.26	3	5	8	
D8	DJ	1005	1020	5.52	4	6	8	
E7	DJ	1025	1040	5.47	3	5	8	
F6	DJ	1045	1100	6.37	4	6	8	
E6	DJ	1100	1115	6.41	4	6	8	
E5	DJ	1117	1132	6.35	4	6	8	
F4	DJ	1135	1150	6.42	4	5	8	
E3	DJ	1154	1209	6.41	4	6	8	
A1	LD	0811	0826	5.19	1	2	8	
A2	LD	0827	0842	6.07	1	2	8	

Attach Calibration Sheet
 Attach site map showing grid ID

**BAILARD LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: A. Dusky 26 N. Hershey 20
D. Johns 19
L. Devo 27

Date: 8-15-17 Instrument Used: TRV 1000

Temperature: 72° Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
A3	LD	0842	0857	6.18	1	2	7	
A4	LD	0858	0913	6.17	1	2	8	
A5	LD	0913	0928	6.31	2	3	4	
A6	LD	0928	0943	6.40	1	2	8	
A7	LD	0944	0959	6.73	3	5	8	
A8	LD	1003	1018	6.82	4	6	8	
A9	LD	1027	1042	6.54	3	5	8	
A10	LD	1043	1058	6.70	4	6	8	
A11	LD	1059	1114	7.09	4	6	8	
A12	LD	1116	1131	7.26	4	6	8	
D11	LD	1136	1151	7.01	4	5	8	
E11	LD	1153	1208	6.94	4	6	8	
C1	NH	0810	0825	2.38	1	2	8	
C2	NH	0825	0840	2.85	1	2	8	
C3	NH	0842	0857	2.69	1	2	7	
C4	NH	0858	0913	2.94	1	2	8	
C5	NH	0914	0929	2.15	2	3	9	
C6	NH	0930	0945	2.15	1	2	8	
C7	NH	0947	1002	1.28	3	5	8	
C8	NH	1003	1018	1.73	4	6	8	
C9	NH	1027	1042	1.25	3	5	8	
C10	NH	1043	1058	0.80	4	6	8	
E10	NH	1100	1115	0.82	4	6	8	
F10	NH	1116	1131	0.56	4	6	8	
F9	NH	1133	1148	0.67	4	5	8	
F8	NH	1150	1205	0.38	4	6	8	

Attach Calibration Sheet
 Attach site map showing grid ID

TVA CALIBRATION LOG

Landfill: *Beilford*

OPERATOR INITIALS	DATE	SN #	CH ₄ CALIBRATION GAS UNCORRECTED READINGS						CH ₄ CALIBRATION GAS CORRECTED READINGS									
			LOW		MED		HIGH		LOW		MED		HIGH					
			PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT		
AD	8-15-17	1030945322	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	500
NH	↓	1030945294	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	500
LD	↓	1035045775	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	500
DS	↓	1035045571	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	500

8-15-17 BAILARD LANDFILL ISM

LOGGED DATA

VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
15 AUG 17	08:36:24	D1	0.00 PPM OK	2.31 PPM OK
15 AUG 17	08:51:54	D2	0.00 PPM OK	2.67 PPM OK
15 AUG 17	09:07:20	D3	0.00 PPM OK	3.53 PPM OK
15 AUG 17	09:22:49	D4	0.00 PPM OK	4.43 PPM OK
15 AUG 17	09:38:33	D5	0.00 PPM OK	4.36 PPM OK
15 AUG 17	09:53:54	D6	0.00 PPM OK	5.19 PPM OK
15 AUG 17	10:11:18	D7	0.00 PPM OK	5.26 PPM OK
15 AUG 17	10:28:23	D8	0.00 PPM OK	5.52 PPM OK
15 AUG 17	10:51:33	E7	0.00 PPM OK	5.47 PPM OK
15 AUG 17	11:08:36	E6	0.00 PPM OK	6.37 PPM OK
15 AUG 17	11:25:42	E6	0.00 PPM OK	6.41 PPM OK
15 AUG 17	11:41:52	E5	0.00 PPM OK	6.35 PPM OK
15 AUG 17	11:59:21	E4	0.00 PPM OK	6.42 PPM OK
15 AUG 17	12:18:57	E3	0.00 PPM OK	6.41 PPM OK

END

LOGGED DATA

VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
15 AUG 17	08:40:21	GRDC1	0.00 PPM OK	2.38 PPM OK
15 AUG 17	08:57:56	GRDC2	0.00 PPM OK	2.85 PPM OK
15 AUG 17	09:14:06	GRDC3	0.00 PPM OK	2.69 PPM OK
15 AUG 17	09:29:32	GRDC4	0.00 PPM OK	2.94 PPM OK
15 AUG 17	09:45:16	GRDC5	0.00 PPM OK	2.15 PPM OK
15 AUG 17	10:00:44	GRDC6	0.00 PPM OK	2.15 PPM OK
15 AUG 17	10:18:23	GRDC7	0.00 PPM OK	1.88 PPM OK
15 AUG 17	10:35:22	GRDC8	0.00 PPM OK	1.73 PPM OK
15 AUG 17	10:58:55	GRDC9	0.00 PPM OK	1.25 PPM OK
15 AUG 17	11:15:38	GRDC10	0.00 PPM OK	0.80 PPM OK
15 AUG 17	11:32:48	GRDE10	0.00 PPM OK	0.82 PPM OK
15 AUG 17	11:49:01	GRDF10	0.00 PPM OK	0.56 PPM OK
15 AUG 17	12:06:19	GRDF9	0.00 PPM OK	0.67 PPM OK
15 AUG 17	12:25:52	GRDF8	0.00 PPM OK	0.38 PPM OK

END

LOGGED DATA

VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
15 AUG 17	08:38:43	GRDB1	0.00 PPM OK	4.97 PPM OK
15 AUG 17	08:55:45	GRDB2	0.00 PPM OK	6.06 PPM OK
15 AUG 17	09:11:10	GRDB3	0.00 PPM OK	4.52 PPM OK
15 AUG 17	09:26:35	GRDB4	0.00 PPM OK	4.77 PPM OK
15 AUG 17	09:42:40	GRDB5	0.00 PPM OK	5.09 PPM OK
15 AUG 17	09:58:08	GRDB6	0.00 PPM OK	5.28 PPM OK
15 AUG 17	10:15:46	GRDB7	0.00 PPM OK	5.09 PPM OK
15 AUG 17	10:32:35	GRDB8	0.00 PPM OK	5.32 PPM OK
15 AUG 17	10:56:09	GRDB9	0.00 PPM OK	5.29 PPM OK
15 AUG 17	11:13:05	GRDB10	0.00 PPM OK	5.24 PPM OK
15 AUG 17	11:30:01	GRDB11	0.00 PPM OK	5.63 PPM OK
15 AUG 17	11:46:39	GRDB12	0.00 PPM OK	5.56 PPM OK
15 AUG 17	12:03:47	GRDC12	0.00 PPM OK	8.31 PPM OK
15 AUG 17	12:23:20	GRDD12	0.00 PPM OK	5.60 PPM OK

END

LOGGED DATA

VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
15 AUG 17	08:43:27	A1	0.00 PPM OK	5.19 PPM OK
15 AUG 17	08:58:50	A2	0.00 PPM OK	6.07 PPM OK
15 AUG 17	09:14:10	A3	0.00 PPM OK	6.18 PPM OK
15 AUG 17	09:29:24	A4	0.00 PPM OK	6.17 PPM OK
15 AUG 17	09:45:10	A5	0.00 PPM OK	6.31 PPM OK
15 AUG 17	10:00:33	A6	0.00 PPM OK	6.40 PPM OK
15 AUG 17	10:15:51	A7	0.00 PPM OK	6.73 PPM OK
15 AUG 17	10:35:21	A8	0.00 PPM OK	6.82 PPM OK
15 AUG 17	10:58:48	A9	0.00 PPM OK	6.54 PPM OK
15 AUG 17	11:15:18	A10	0.00 PPM OK	6.70 PPM OK
15 AUG 17	11:30:53	A11	0.00 PPM OK	7.09 PPM OK
15 AUG 17	11:48:01	A12	0.00 PPM OK	7.26 PPM OK
15 AUG 17	12:09:12	D11	0.00 PPM OK	7.01 PPM OK
15 AUG 17	12:24:38	E11	0.00 PPM OK	6.94 PPM OK

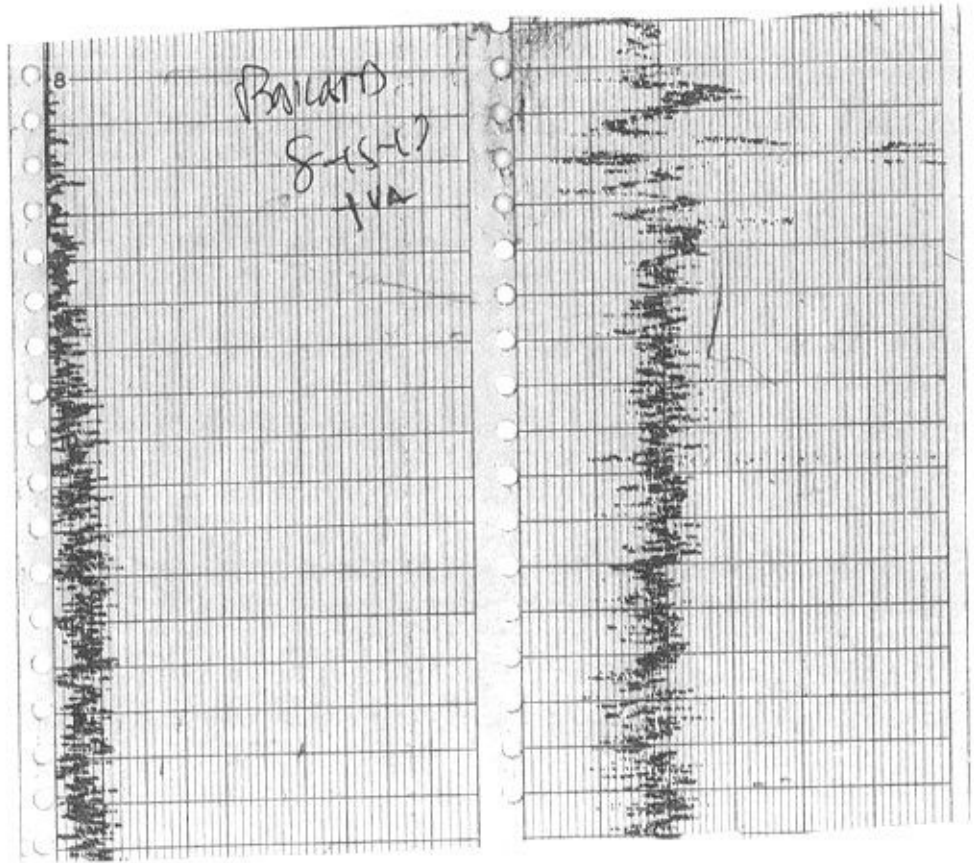
END

8-15-17 BAILARD LANDFILL ISM

ID	lat	lon	time	name	cmt
1	34.22734302	-119.227691	2017-08-15T18:04:15Z	0.080PPM	GRDC10
2	34.22829604	-119.225328	2017-08-15T19:11:03Z	0.38PPM	GRDF8
3	34.227225	-119.225489	2017-08-15T19:09:59Z	0.56PPM	GRDF10
4	34.22785196	-119.225422	2017-08-15T19:10:29Z	0.67PPM	GRDF9
5	34.22721704	-119.226096	2017-08-15T18:18:13Z	0.82PPM	GRDE10
6	34.22770704	-119.227755	2017-08-15T17:44:56Z	1.25PPM	GRDC9
7	34.22833501	-119.227793	2017-08-15T17:22:50Z	1.73PPM	GRDC8
8	34.22909902	-119.227645	2017-08-15T17:06:31Z	1.88PPM	GRDC7
9	34.232633	-119.226956	2017-08-15T15:28:16Z	2.31PPM	GRDD1
10	34.23216596	-119.226916	2017-08-15T15:45:04Z	2.67PPM	GRDD2
11	34.23022698	-119.227712	2017-08-15T16:30:17Z	2.15PPM	GRDC5
12	34.22960001	-119.227659	2017-08-15T16:48:43Z	2.15PPM	GRDC7
13	34.23268296	-119.227689	2017-08-15T15:28:30Z	2.38PPM	GRDC1
14	34.23150103	-119.227573	2017-08-15T16:00:01Z	2.69PPM	GRDC3
15	34.23213897	-119.22768	2017-08-15T15:59:31Z	2.85PPM	GRDC2
16	34.23092301	-119.227659	2017-08-15T16:14:47Z	2.94PPM	GRDC4
17	34.231539	-119.226902	2017-08-15T16:00:07Z	3.53PPM	GRDD3
18	34.23028498	-119.226956	2017-08-15T16:43:53Z	4.36PPM	GRDD5
19	34.23096903	-119.226902	2017-08-15T16:16:22Z	4.43PPM	GRDD4
20	34.231641	-119.228399	2017-08-15T15:58:03Z	4.52PPM	GRDB3
21	34.23104396	-119.228359	2017-08-15T16:14:14Z	4.77PPM	GRDB4
22	34.232806	-119.228391	2017-08-15T15:27:49Z	4.97PPM	GRDB1
23	34.22974904	-119.226889	2017-08-15T16:49:34Z	5.19PPM	GRDD6
24	34.22907698	-119.226889	2017-08-15T17:07:11Z	5.26PPM	GRDD7
25	34.22910003	-119.226224	2017-08-15T17:44:59Z	5.47PPM	GRDE7
26	34.22847298	-119.226889	2017-08-15T17:24:05Z	5.52PPM	GRDD8
27	34.23031398	-119.228375	2017-08-15T16:29:45Z	5.09PPM	GRDB5
28	34.22922702	-119.228423	2017-08-15T17:04:10Z	5.09PPM	GRDB7
29	34.23262001	-119.229109	2017-08-15T15:28:27Z	5.19PPM	GRDA1
30	34.22733002	-119.228415	2017-08-15T18:01:30Z	5.24PPM	GRDB10
31	34.22981098	-119.228399	2017-08-15T16:47:31Z	5.28PPM	GRDB6
32	34.22789304	-119.228415	2017-08-15T17:44:32Z	5.29PPM	GRDB9
33	34.22852302	-119.228431	2017-08-15T17:22:51Z	5.32PPM	GRDB8
34	34.225787	-119.22831	2017-08-15T18:35:36Z	5.56PPM	GRDB12
35	34.22606184	-119.2269019	2017-08-15T19:27:07Z	5.60PPM	GRDD12
36	34.22678	-119.228391	2017-08-15T18:18:15Z	5.63PPM	GRDB11
37	34.230246	-119.226159	2017-08-15T18:46:56Z	6.35PPM	GRDE5
38	34.22976304	-119.225434	2017-08-15T18:06:24Z	6.37PPM	GRDF6
39	34.229757	-119.22618	2017-08-15T18:18:06Z	6.41PPM	GRDE6
40	34.23162298	-119.226138	2017-08-15T19:19:32Z	6.41PPM	CRDE3
41	34.23102996	-119.226159	2017-08-15T18:55:17Z	6.42PPM	GRDE4
42	34.23222497	-119.228431	2017-08-15T15:42:50Z	6.06PPM	GRDB2
43	34.23211399	-119.229047	2017-08-15T15:45:08Z	6.07PPM	GRDA2
44	34.23087599	-119.229026	2017-08-15T16:34:21Z	6.17PPM	GRDA4
45	34.231382	-119.229109	2017-08-15T15:58:23Z	6.18PPM	GRDA3

46	34.23021398	-119.229026	2017-08-15T16:35:00Z	6.31PPM	GRDA5
47	34.229656	-119.229067	2017-08-15T17:19:19Z	6.40PPM	GRDA6
48	34.22779002	-119.229026	2017-08-15T18:16:57Z	6.54PPM	GRDA9
49	34.22716297	-119.229026	2017-08-15T18:17:31Z	6.70PPM	GRDA10
50	34.22902803	-119.229171	2017-08-15T17:20:03Z	6.73PPM	GRDA7
51	34.22836603	-119.229026	2017-08-15T17:20:32Z	6.82PPM	GRDA8
52	34.22658697	-119.226136	2017-08-15T19:09:55Z	6.98PPM	GRDE11
53	34.22664003	-119.226843	2017-08-15T18:53:37Z	7.01PPM	GRDD11
54	34.226622	-119.229067	2017-08-15T18:18:00Z	7.09PPM	GRDA11
55	34.22596	-119.229171	2017-08-15T18:32:43Z	7.26PPM	GRDA12
56	34.22592388	-119.227646	2017-08-15T19:04:37Z	8.31PPM	GRDC12

WIND SPEED & DIRECTION CHART ROLL



**BAILARD LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: A. Durky 26 _____
N. Hershey 19 _____
L. Devol 27 _____

Date: 8-17-17 Instrument Used: TVA KCC

Temperature: 70° Upwind BG: 2 Downwind BG: 1

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
E1	AD	0812	0827	3.49	1	2	8	
E2	AD	0828	0843	3.81	1	2	8	
F1	AD	0843	0858	3.76	1	2	8	
F2	AD	0859	0914	4.18	1	2	8	
F3	AD	0914	0929	3.90	1	2	8	
F4	AD	0930	0945	4.18	1	2	9	
F5	AD	0946	1001	4.17	1	2	10	
G5	AD	1001	1016	4.30	2	3	8	
G7	AD	1021	1036	4.39	2	3	8	
G8	AD	1036	1051	4.44	3	5	8	
G9	AD	1052	1107	4.46	3	5	8	
G10	AD	1110	1125	4.57	4	6	8	
F11	AD	1130	1145	4.65	4	6	8	
G1	NH	0811	0826	3.29	1	2	8	
G2	NH	0827	0842	3.99	1	2	8	
G3	NH	0844	0859	4.31	1	2	8	
G4	NH	0900	0915	4.97	1	2	8	
H3	NH	0915	0930	5.48	1	2	8	
H2	NH	0930	0945	5.80	1	2	9	
H1	NH	0946	1001	6.27	1	2	6	
I1	NH	1002	1017	6.31	2	3	8	
H6	NH	1020	1035	7.09	2	3	8	
H7	NH	1036	1051	7.11	3	5	8	
H8	NH	1051	1106	7.01	3	5	8	
H9	NH	1110	1125	5.15	4	6	8	
H10	NH	1130	1145	4.32	4	6	8	
I2	LD	0811	0826	6.29	1	2	8	
J1	LD	0827	0842	7.95	1	2	8	
L1	LD	0842	0857	7.30	1	2	8	
L2	LD	0858	0913	7.37	1	2	8	

Attach Calibration Sheet
 Attach site map showing grid ID

BAILARD LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: A. Dusky 26 _____
N. Hershhey 19 _____
G. Devel 27 _____

Date: 8-17-17 Instrument Used: TVA 1000

Temperature: 70° Upwind BG: 2 Downwind BG: 1

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
L3	LD	0915	0928	7.99	1	2	8	
K3	LD	0929	0944	7.77	1	2	8	
J4	LD	0946	1001	7.86	1	2	6	
K4	LD	1002	1017	8.30	2	3	8	
L4	LD	1021	1036	8.32	2	3	8	
K5	LD	1037	1052	8.15	3	5	8	
J5	LD	1052	1107	8.25	3	5	8	
F5	LD	1111	1126	8.42	4	6	8	
I6	LD	1129	1144	8.47	4	6	8	

Attach Calibration Sheet
 Attach site map showing grid ID

TVA CALIBRATION LOG

Landfill: *Ballard*

OPERATOR INITIALS	DATE	SN #	CH ₄ CALIBRATION GAS UNCORRECTED READINGS						CH ₄ CALIBRATION GAS CORRECTED READINGS					
			LOW		MED		HIGH		LOW		MED		HIGH	
			PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT
AD	8-17-07	1030945322	—	—	—	—	500	500	—	—	—	—	500	500
MH	↓	1035045571	—	—	—	—	500	500	—	—	—	—	500	500
LD	↓	1035045775	—	—	—	—	500	500	—	—	—	—	500	500

8-17-17 BAILARD LANDFILL ISM

LOGGED DATA

VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
17 AUG 17	08:36:02	GRDG1	0.00 PPM OK	3.29 PPM OK
17 AUG 17	08:52:18	GRDG2	0.00 PPM OK	3.99 PPM OK
17 AUG 17	09:07:39	GRDG3	0.00 PPM OK	4.31 PPM OK
17 AUG 17	09:23:00	GRDG4	0.00 PPM OK	4.97 PPM OK
17 AUG 17	09:38:26	GRDH3	0.00 PPM OK	5.48 PPM OK
17 AUG 17	09:54:53	GRDH2	0.00 PPM OK	5.80 PPM OK
17 AUG 17	10:11:40	GRDH1	0.00 PPM OK	6.27 PPM OK
17 AUG 17	10:26:58	GRDI1	0.00 PPM OK	6.31 PPM OK
17 AUG 17	10:45:18	GRDH6	0.00 PPM OK	7.09 PPM OK
17 AUG 17	11:00:51	GRDH7	0.00 PPM OK	7.11 PPM OK
17 AUG 17	11:16:28	GRDH8	0.00 PPM OK	7.01 PPM OK
17 AUG 17	11:35:29	GRDH9	0.00 PPM OK	5.15 PPM OK
17 AUG 17	11:55:13	GRDH10	0.00 PPM OK	4.32 PPM OK

END

LOGGED DATA

VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
17 AUG 17	08:42:05	GRDE1	0.00 PPM OK	3.49 PPM OK
17 AUG 17	08:57:41	GRDE2	0.00 PPM OK	3.81 PPM OK
17 AUG 17	09:13:03	GRDF1	0.00 PPM OK	3.76 PPM OK
17 AUG 17	09:28:19	GRDF2	0.00 PPM OK	4.18 PPM OK
17 AUG 17	09:43:36	GRDF3	0.00 PPM OK	3.90 PPM OK
17 AUG 17	09:59:45	GRDF4	0.00 PPM OK	4.18 PPM OK
17 AUG 17	10:15:17	GRDF5	0.00 PPM OK	4.17 PPM OK
17 AUG 17	10:30:35	GRDG5	0.00 PPM OK	4.30 PPM OK
17 AUG 17	10:50:31	GRDG7	0.00 PPM OK	4.39 PPM OK
17 AUG 17	11:05:52	GRDG8	0.00 PPM OK	4.44 PPM OK
17 AUG 17	11:21:13	GRDG9	0.00 PPM OK	4.46 PPM OK
17 AUG 17	11:39:40	GRDG10	0.00 PPM OK	4.57 PPM OK
17 AUG 17	11:59:13	GRDF11	0.00 PPM OK	4.65 PPM OK

END

LOGGED DATA

VER= 1.00

VOC DATA

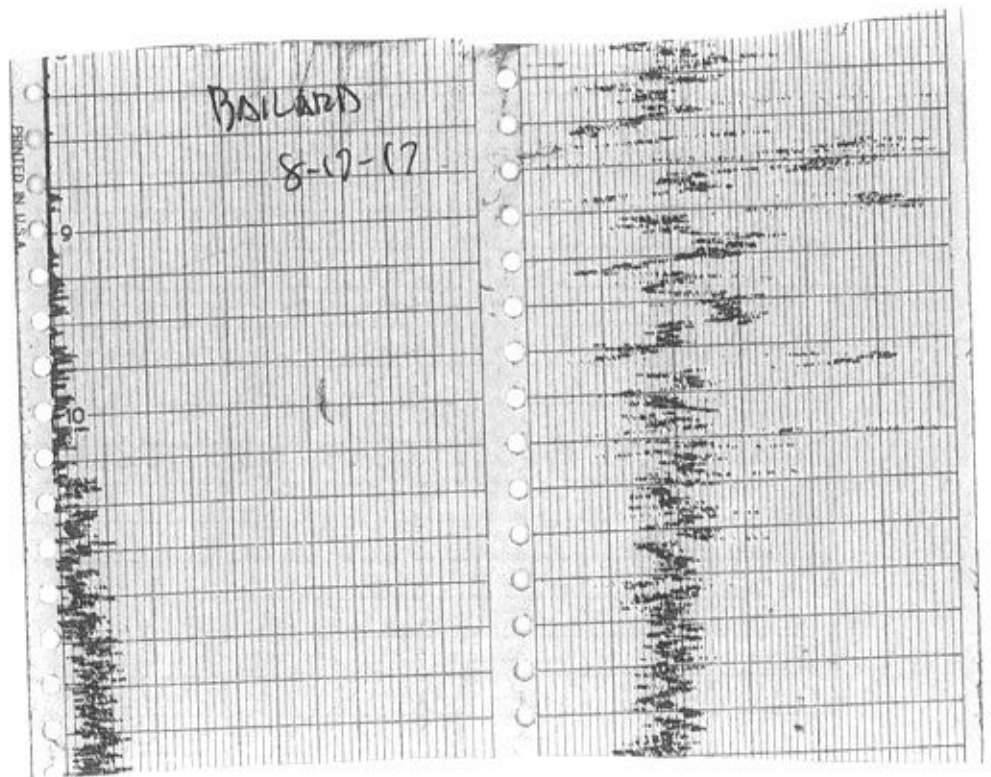
DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
17 AUG 17	08:43:45	I2	0.00 PPM OK	6.29 PPM OK
17 AUG 17	08:59:00	J1	0.00 PPM OK	7.95 PPM OK
17 AUG 17	09:14:40	L1	0.00 PPM OK	7.30 PPM OK
17 AUG 17	09:30:03	L2	0.00 PPM OK	7.37 PPM OK
17 AUG 17	09:45:36	L3	0.00 PPM OK	7.99 PPM OK
17 AUG 17	10:01:40	K3	0.00 PPM OK	7.77 PPM OK
17 AUG 17	10:18:31	J4	0.00 PPM OK	7.86 PPM OK
17 AUG 17	10:34:27	K4	0.00 PPM OK	8.30 PPM OK
17 AUG 17	11:09:12	K5	0.00 PPM OK	8.15 PPM OK
17 AUG 17	11:24:29	J5	0.00 PPM OK	8.25 PPM OK
17 AUG 17	11:43:54	I5	0.00 PPM OK	8.42 PPM OK
17 AUG 17	12:01:06	I6	0.00 PPM OK	8.47 PPM OK

END

8-17-17 BAILARD LANDFILL ISM

ID	lat	lon	time	name	cmt
1	34.23268002	-119.224777	2017-08-17T16:15:00Z	3.29PPM	GRDG1
2	34.23281103	-119.226207	2017-08-17T15:44:46Z	3.49PPM	GRDE1
3	34.232704	-119.22533	2017-08-17T16:15:08Z	3.76PPM	GRDF1
4	34.23222103	-119.226118	2017-08-17T15:45:31Z	3.81PPM	GRDE2
5	34.23163103	-119.22537	2017-08-17T16:31:03Z	3.90PPM	GRDF3
6	34.23203001	-119.224697	2017-08-17T16:15:29Z	3.99PPM	GRDG2
7	34.23035698	-119.225378	2017-08-17T17:02:05Z	4.17PPM	GRDF5
8	34.23216697	-119.22537	2017-08-17T16:15:35Z	4.18PPM	GRDF2
9	34.23104698	-119.225362	2017-08-17T16:46:38Z	4.18PPM1	GRDF4
10	34.23044398	-119.22467	2017-08-17T17:21:48Z	4.30PPM	GRDG5
11	34.23152802	-119.224657	2017-08-17T16:15:51Z	4.31PPM	GRDG3
12	34.22721896	-119.223997	2017-08-17T18:50:38Z	4.32PPM	GRDH10
13	34.22909601	-119.224614	2017-08-17T17:37:16Z	4.39PPM	GRDG7
14	34.22848597	-119.224678	2017-08-17T17:52:38Z	4.44PPM	GRDG8
15	34.22782204	-119.224662	2017-08-17T18:11:37Z	4.46PPM	GRDG9
16	34.22730597	-119.22463	2017-08-17T18:30:57Z	4.57PPM	GRDG10
17	34.22679601	-119.225378	2017-08-17T18:47:26Z	4.65PPM	GRDF11
18	34.23088999	-119.224657	2017-08-17T16:16:28Z	4.97PPM	GRDG4
19	34.22772003	-119.223944	2017-08-17T18:50:13Z	5.15PPM	GRDH9
20	34.23147697	-119.223935	2017-08-17T16:32:02Z	5.48PPM	GRDH3
21	34.23202397	-119.223962	2017-08-17T16:53:21Z	5.80PPM	GRDH2
22	34.23261699	-119.223989	2017-08-17T17:02:47Z	6.27PPM	GRDH1
23	34.232057	-119.223149	2017-08-17T15:29:55Z	6.29PPM	GRDI2
24	34.23260601	-119.223224	2017-08-17T17:21:26Z	6.31PPM	GRDI1
25	34.22835899	-119.223966	2017-08-17T18:12:42Z	7.01PPM	GRDH8
26	34.22962298	-119.223952	2017-08-17T17:37:33Z	7.09PPM	GRDH6
27	34.22899601	-119.223952	2017-08-17T17:52:29Z	7.11PPM	GRDH7
28	34.23250602	-119.221087	2017-08-17T16:11:49Z	7.30PPM	GRDL1
29	34.23207703	-119.221071	2017-08-17T16:25:50Z	7.37PPM	GRDL2
30	34.23150698	-119.221755	2017-08-17T16:46:52Z	7.77PPM	GRDK3
31	34.23270199	-119.222504	2017-08-17T16:09:14Z	7.95PPM	GRDJ1
32	34.231467	-119.220967	2017-08-17T16:30:41Z	7.99PPM	GRDL3
33	34.23025296	-119.221702	2017-08-17T18:18:43Z	8.15PPM	GRDK5
34	34.23019596	-119.222399	2017-08-17T18:46:10Z	8.25PPM	GRDJ5
35	34.23086802	-119.221608	2017-08-17T17:22:11Z	8.30PPM	GRDK4
36	34.23078898	-119.220991	2017-08-17T18:17:49Z	8.32PPM	GRDL4
37	34.23016202	-119.223244	2017-08-17T18:46:15Z	8.42PPM	GRDI5
38	34.229599	-119.223229	2017-08-17T18:47:59Z	8.47PPM	GRDI6

WIND SPEED & DIRECTION CHART ROLL



**BAILARD LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: A. Dusky 26
T. Lewis 20

Date: 8-21-17 Instrument Used: TVA 1000

Temperature: 69° Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
L5	AD	0809	0824	3.19	2	3	8	
L6	AD	0825	0840	3.56	3	4	8	
K6	AD	0840	0855	3.66	4	5	8	
J6	AD	0857	0912	3.90	4	5	8	
I7	AD	0912	0927	3.88	3	4	8	
J7	AD	0930	0945	5.98	3	4	8	
K7	AD	0945	1000	4.07	4	5	8	
L7	AD	1002	1017	4.02	4	7	8	
ER	AD	1021	1036	4.09	4	7	8	
F12	AD	1037	1052	4.13	4	6	8	
G11	AD	1052	1107	4.10	4	8	8	
G12	AD	1108	1123	3.98	4	10	8	
H12	AD	1124	1139	4.11	4	8	8	
I12	AD	1139	1154	4.18	4	9	9	
L8	TL	0810	0825	2.66	2	3	8	
K8	TL	0825	0840	2.38	3	4	9	
J8	TL	0841	0856	2.10	4	5	8	
I8	TL	0857	0912	2.56	4	5	8	
J9	TL	0913	0928	2.38	3	4	8	
J9	TL	0930	0945	4.14	3	4	8	
K9	TL	0946	1001	1.84	4	5	8	
K10	TL	1002	1017	2.06	4	7	8	
J10	TL	1020	1035	1.56	4	7	8	
I10	TL	1036	1051	1.53	4	6	8	
H11	TL	1052	1107	1.60	4	8	8	
I11	TL	1108	1123	1.30	4	10	8	
J11	TL	1124	1139	1.66	4	8	8	
K11	TL	1140	1155	1.07	4	9	9	

Attach Calibration Sheet
 Attach site map showing grid ID

RES

ENVIRONMENTAL INC.

TVA CALIBRATION LOG

Landfill: Ballard

OPERATOR INITIALS	DATE	SN #	CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS											
			LOW		MED		HIGH		LOW		MED		HIGH							
			PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT						
AD	8-21-17	10350945322	---	---	---	---	500	500	---	---	---	---	500	500	---	---	---	---	500	500
TL	8-21-17	10350945294	---	---	---	---	500	500	---	---	---	---	---	---	---	---	---	---	500	500

8-21-17 BAILARD LANDFILL ISM

LOGGED DATA

VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
21 AUG 17	08:42:16	L8	0.00 PPM OK	2.66 PPM OK
21 AUG 17	08:57:56	K8	0.00 PPM OK	2.38 PPM OK
21 AUG 17	09:13:12	K8	0.00 PPM OK	2.10 PPM OK
21 AUG 17	09:29:11	I8	0.00 PPM OK	2.56 PPM OK
21 AUG 17	09:45:00	I9	0.00 PPM OK	2.38 PPM OK
21 AUG 17	10:02:32	J9	0.00 PPM OK	4.14 PPM OK
21 AUG 17	10:18:07	K9	0.00 PPM OK	1.84 PPM OK
21 AUG 17	10:34:17	K10	0.00 PPM OK	2.06 PPM OK
21 AUG 17	10:52:48	J10	0.00 PPM OK	1.56 PPM OK
21 AUG 17	11:08:52	I10	0.00 PPM OK	1.53 PPM OK
21 AUG 17	11:24:27	H11	0.00 PPM OK	1.60 PPM OK
21 AUG 17	11:40:34	I11	0.00 PPM OK	1.30 PPM OK
21 AUG 17	11:56:27	J11	0.00 PPM OK	1.66 PPM OK
21 AUG 17	12:11:54	K11	0.00 PPM OK	1.07 PPM OK

END

LOGGED DATA

VER= 1.00

VOC DATA

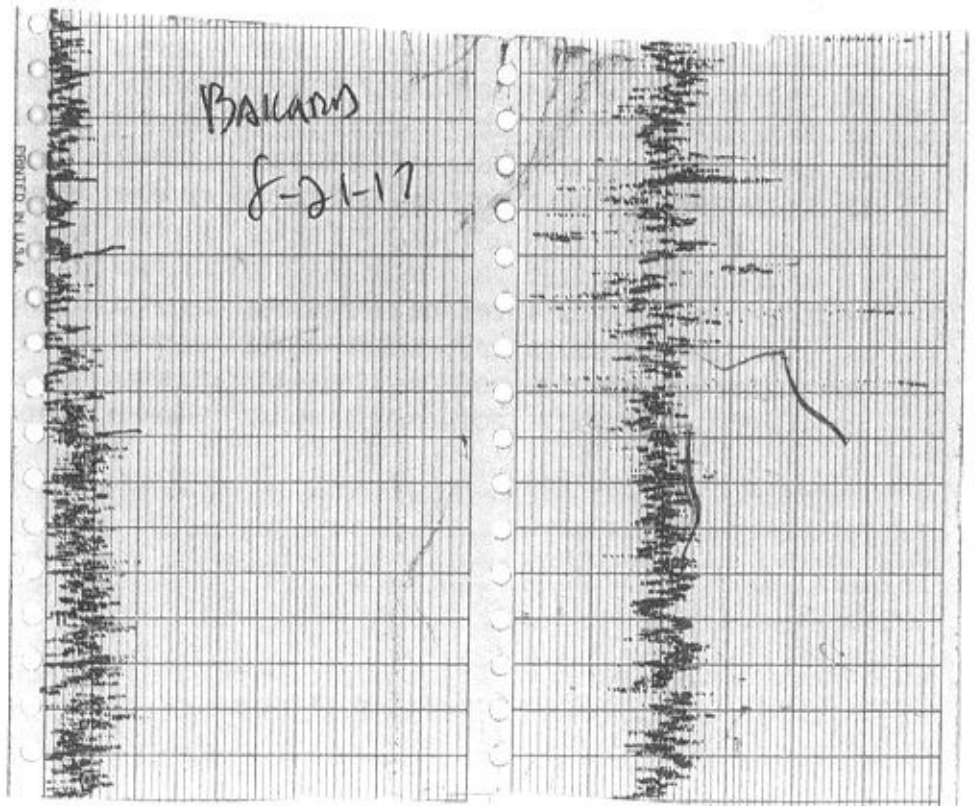
DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
21 AUG 17	08:39:25	GRDL5	0.00 PPM OK	3.19 PPM OK
21 AUG 17	08:54:48	GRDL6	0.00 PPM OK	3.56 PPM OK
21 AUG 17	09:10:09	GRDK6	0.00 PPM OK	3.66 PPM OK
21 AUG 17	09:26:40	GRDJ6	0.00 PPM OK	3.90 PPM OK
21 AUG 17	09:42:19	GRDI7	0.00 PPM OK	3.88 PPM OK
21 AUG 17	09:59:56	GRDJ7	0.00 PPM OK	5.98 PPM OK
21 AUG 17	10:15:18	GRDK7	0.00 PPM OK	4.07 PPM OK
21 AUG 17	10:31:30	GRDL7	0.00 PPM OK	4.02 PPM OK
21 AUG 17	10:51:08	GRDE12	0.00 PPM OK	4.09 PPM OK
21 AUG 17	11:06:53	GRDF12	0.00 PPM OK	4.13 PPM OK
21 AUG 17	11:22:11	GRDG11	0.00 PPM OK	4.10 PPM OK
21 AUG 17	11:37:44	GRDG12	0.00 PPM OK	3.98 PPM OK
21 AUG 17	11:53:44	GRDH12	0.00 PPM OK	4.11 PPM OK
21 AUG 17	12:09:20	GRDI12	0.00 PPM OK	4.18 PPM OK

END

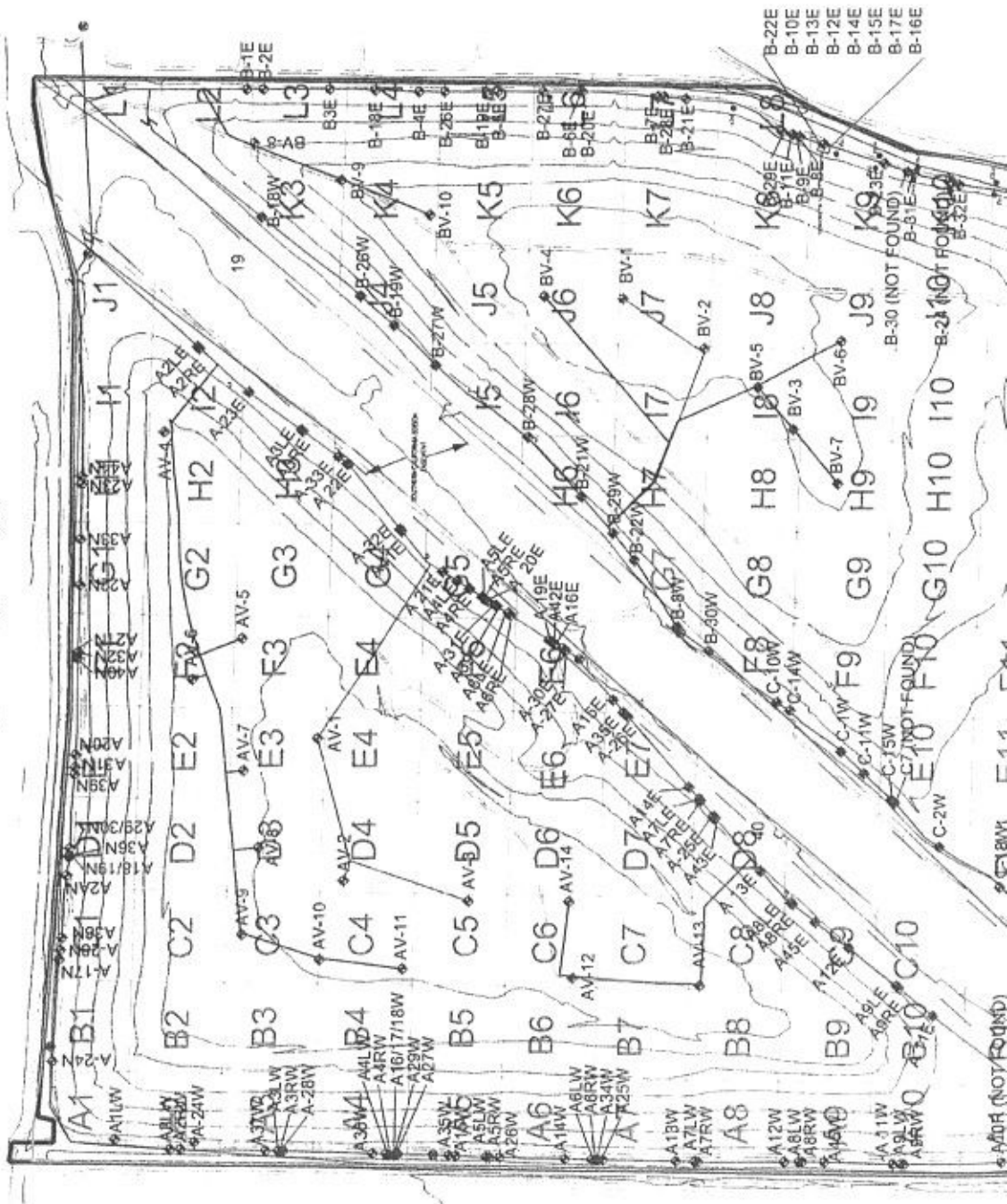
8-21-17 BAILARD LANDFILL ISM

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2	34.22668998	-119.2232	2017-08-21T18:24:53Z	1.30PPM	GRDI11
3	34.22721502	-119.2232	2017-08-21T17:53:17Z	1.53PPM	GRDI10
4	34.22728803	-119.2225	2017-08-21T17:37:33Z	1.56PPM	GRDJ10
5	34.22667598	-119.2238	2017-08-21T18:09:07Z	1.60PPM	GRDH11
6	34.22672502	-119.2224	2017-08-21T18:40:42Z	1.66PPM	GRDJ11
7	34.22777896	-119.2217	2017-08-21T17:02:43Z	1.84PPM	GRDK9
8	34.22725098	-119.2217	2017-08-21T17:17:57Z	2.06PPM	GRDK10
9	34.22841799	-119.2225	2017-08-21T15:58:04Z	2.10PPM	GRDJ8
10	34.22848203	-119.2218	2017-08-21T15:42:27Z	2.38PPM	GRDK8
11	34.22781601	-119.2232	2017-08-21T16:31:01Z	2.38PPM	GRDI9
12	34.22845999	-119.2231	2017-08-21T16:13:30Z	2.56PPM	GRDI8
13	34.22848497	-119.2209	2017-08-21T15:27:43Z	2.66PPM	GRDL8
14	34.230331	-119.221	2017-08-21T15:26:06Z	3.19PPM	GRDL5
15	34.22978098	-119.221	2017-08-21T15:41:09Z	3.56PPM	GRDL6
16	34.22980797	-119.2217	2017-08-21T15:57:20Z	3.66PPM	GRDK6
17	34.22920397	-119.2233	2017-08-21T16:31:44Z	3.88PPM	GRDI7
18	34.22980797	-119.2225	2017-08-21T16:13:16Z	3.90PPM	GRDJ6
19	34.22609302	-119.2246	2017-08-21T18:24:56Z	3.98PPM	GRDG12
20	34.22919701	-119.221	2017-08-21T17:17:59Z	4.02PPM	GRDL7
21	34.22920397	-119.2217	2017-08-21T17:02:26Z	4.07PPM	GRDK7
22	34.22613996	-119.2262	2017-08-21T17:38:17Z	4.09PPM	GRDE12
23	34.22675	-119.2246	2017-08-21T18:08:40Z	4.10PPM	GRDG11
24	34.22615899	-119.2239	2017-08-21T18:55:20Z	4.11PPM	GRDH12
25	34.22615304	-119.2254	2017-08-21T17:53:13Z	4.13PPM	GRDF12
26	34.22785699	-119.2225	2017-08-21T16:47:00Z	4.14PPM	GRDJ9
27	34.22609202	-119.2233	2017-08-21T18:55:48Z	4.18PPM	GRDI12
28	34.22923104	-119.2225	2017-08-21T16:46:14Z	5.98PPM	GRDJ7

WIND SPEED & DIRECTION CHART ROLL



SMITH CURIA RIER



AV
=199

B-22E
B-10E
B-13E
B-12E
B-14E
B-15E
B-17E
B-16E

B-30 (NOT FOUND)
B-31E
B-32E

C-10W
C-14W
C-11W
C-15W
C-7 (NOT FOUND)
C-2W

A-10 (NOT FOUND)
A-11E
A-12E

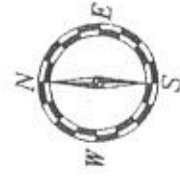
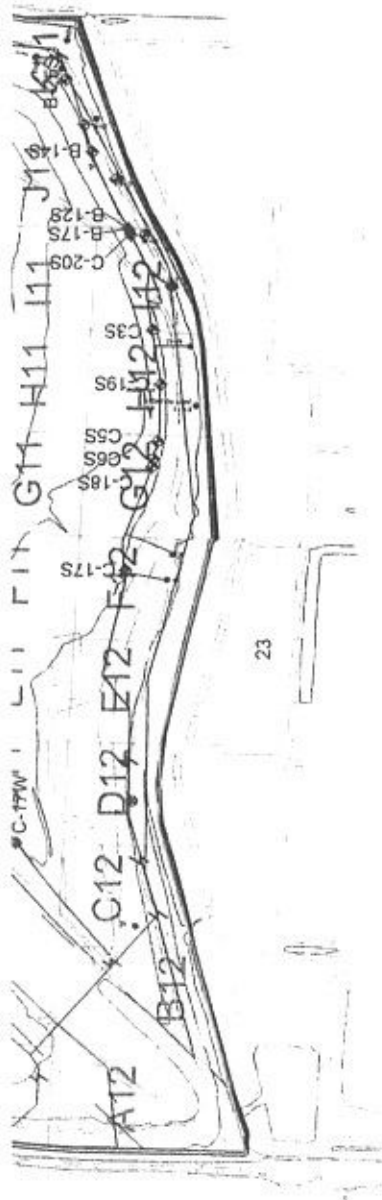
TV4 3RD QTR 2017

8-15-17

8-17-17

8-21-17

41



LEGEND

- ◆ LFG WELL LOCATION (SURVEYED)
- ABOVE GROUND LFG HEADER
- BURIED LFG HEADER
- COMPRESSED AIR CONDENSATE LINES (TO AND FROM PUMP)
- CONDENSATE PUMP WITH PUMP
- CAMERA ACCESS VAULT
- ⊞ BUTTERFLY VALVE WITH ACCESS VAULT (LFG, AIR, CONDENSATE)
- MAJOR CONTOUR
- MINOR CONTOUR
- PROPERTY LINE

VENTURA REGIONAL SANITATION DISTRICT
 1001 Partridge Drive, Suite 150
 Ventura, California 93003-5562

Date: 01/07/2014

Drawn By: JJW

**BAILARD LANDFILL
 SWEEP GRID**

Topography date: December 3, 2009 by GPSI
 Updated June 21, 2010 by VRSD

DWG 20131230 BAILARD MONITORING GRID.dwg
FILE SOLIDWASTE
DATE JAN 07 2014
SHEET 1 OF 1

REVISIONS	BY

**COASTAL LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: Michael Orue 19 Armen Jones 17
Leigh Wade 10 Nick Hershey 17
Kevin Rinkler 18

Date: 12-22-17 Instrument Used: TVA1000

Temperature: 430 Upwind BG: 2 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
A5	MO	0819	0834	2.60	1	2	10	
B5	MO	0835	0850	3.05	1	2	14	
C5	MO	0850	0905	3.25	1	2	14	
D5	MO	0906	0921	3.77	1	2	12	
E5	MO	0921	0936	4.43	1	2	12	
F5	MO	0937	0952	4.63	1	2	13	
G5	MO	0955	1010	4.87	1	2	13	
H5	MO	1011	1026	5.26	1	2	14	
F6	MO	1026	1041	5.38	1	2	13	
G6	MO	1042	1057	5.68	1	2	13	
H6	MO	1057	1112	5.77	1	2	12	
A7	MO	1113	1128	6.18	1	2	12	
B7	MO	1128	1143	8.32	1	2	12	
H2	LW	0820	0835	4.88	1	2	10	
B2	LW	0835	0850	5.01	1	2	14	
D2	LW	0907	0922	4.72	1	2	14	
E2	LW	0923	0938	5.00	1	2	13	
F2	LW	0946	0955	4.50	1	2	13	
G2	LW	0956	1011	5.18	1	2	13	
A2	LW	1012	1027	4.07	1	2	14	
C7	LW	1028	1043	4.32	1	2	13	
D7	LW	1044	1059	4.08	1	2	13	
E7	LW	1100	1115	3.99	1	2	12	
F7	LW	1116	1131	3.25	1	2	12	
G7	LW	1132	1147	5.94	1	2	12	
A4	KR	0820	0835	2.58	1	2	10	
B4	KR	0837	0852	3.07	1	2	14	
C4	KR	0855	0910	3.39	1	2	14	
D4	KR	0912	0927	3.72	1	2	14	
E4	KR	0928	0943	5.75	1	2	13	

Attach Calibration Sheet
 Attach site map showing grid ID

**COASTAL LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: michael o'neil 19 Armen Jones 11
Leigh Wade 16 Nick HERSHAY 17
Kenn Rinker 18

Date: 12-22-17 Instrument Used: TVA1000

Temperature: 47° Upwind BG: 2 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
F4	KR	0948	1003	4.29	1	2	13	
G4	KR	1007	1022	4.50	1	2	13	
H4	KR	1027	1039	4.74	1	2	13	
H7	KR	1041	1056	4.38	1	2	13	
A8	KR	1051	1112	4.38	1	2	13	
B8	KR	1114	1129	4.40	1	2	12	
C8	KR	1130	1145	6.93	1	2	12	
D8	KR	1146	1201	4.61	1	2	12	
A3	AJ	0826	0841	1.61	1	2	10	
B3	AJ	0873	0858	1.87	1	2	10	
C3	AJ	0900	0915	1.58	1	2	12	
D3	AJ	0917	0932	2.36	1	2	12	
E3	AJ	0934	0949	2.19	1	2	13	
F3	AJ	0957	1006	2.50	1	2	13	
G3	AJ	1008	1023	2.29	1	2	14	
H3	AJ	1025	1040	2.65	1	2	13	
E8	AJ	1043	1058	2.35	1	2	13	
F8	AJ	1102	1117	2.59	1	2	12	
G8	AJ	1119	1134	2.68	1	2	12	
H8	AJ	1136	1151	2.69	1	2	12	
B1	NH	0819	0834	15.92	1	2	10	
C1	NH	0836	0851	7.39	1	2	14	
D1	NH	0853	0908	4.87	1	2	14	
E1	NH	0910	0925	3.93	1	2	12	
F1	NH	0926	0941	2.63	1	2	12	
G1	NH	0949	1004	5.33	1	2	13	
H1	NH	1005	1020	1.09	1	2	13	
A6	NH	1021	1036	0.39	1	2	14	
B6	NH	1037	1052	0.02	1	2	13	
C6	NH	1053	1108	0.07	1	2	13	

Attach Calibration Sheet
 Attach site map showing grid ID

COASTAL LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Michael O'Rourke 19 Armen Jones 11
Leigh Wade 10 Nick Hershey 17
Kevin Bunker 18 _____

Date: 12-22-17 Instrument Used: TVA1000

Temperature: 47° Upwind BG: 2 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
DG	NH	1109	1124	0.04	1	2	12	
E6	NH	1125	1140	0.52	1	2	12	
EZ	LW	0851	0906	4.66	1	2	14	

Attach Calibration Sheet
 Attach site map showing grid ID

RES ENVIRONMENTAL INC.

TVA CALIBRATION LOG

Landfill: Coastal

OPERATOR INITIALS	DATE	SN #	CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS											
			LOW		MED		HIGH		LOW		MED		HIGH							
			PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT						
MO	12-22-17	1035045571																		
LW		1036346773						500	500							500	500			
NH		1032645720						500	500							500	500			
KR		1034345584																		
AT	✓	1036346774																		

12-22-17 COASTAL LANDFILL ISM

COASTAL

VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
22 DEC 17	09:39:09	GRDA2	0.00 PPM OK	4.88 PPM OK
22 DEC 17	09:55:12	GRDB2	0.00 PPM OK	5.01 PPM OK
22 DEC 17	10:11:14	GRDC2	0.00 PPM OK	4.61 PPM OK
22 DEC 17	10:27:20	GRDD2	0.00 PPM OK	4.72 PPM OK
22 DEC 17	10:43:18	GRDE2	0.00 PPM OK	5.00 PPM OK
22 DEC 17	10:59:44	GRDF2	0.00 PPM OK	4.50 PPM OK
22 DEC 17	11:16:03	GRDG2	0.00 PPM OK	5.18 PPM OK
22 DEC 17	11:32:04	GRDH2	0.00 PPM OK	4.07 PPM OK
22 DEC 17	11:47:55	GRDC7	0.00 PPM OK	4.32 PPM OK
22 DEC 17	12:03:53	GRDD7	0.00 PPM OK	4.08 PPM OK
22 DEC 17	12:20:01	GRDE7	0.00 PPM OK	3.99 PPM OK
22 DEC 17	12:35:50	GRDF7	0.00 PPM OK	3.95 PPM OK
22 DEC 17	12:51:41	GRDG7	0.00 PPM OK	5.94 PPM OK

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LOGGED DATA

VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
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20 DEC 17	09:44:06	GRD X31	0.00 PPM OK	1.95 PPM OK
20 DEC 17	10:04:13	GRD Y31	0.00 PPM OK	1.86 PPM OK
20 DEC 17	10:21:06	GRD Z31	0.00 PPM OK	3.90 PPM OK
20 DEC 17	10:39:34	GRD Y29	0.00 PPM OK	3.65 PPM OK
20 DEC 17	10:56:40	GRD X29	0.00 PPM OK	2.16 PPM OK
20 DEC 17	11:13:59	GRD W29	0.00 PPM OK	3.81 PPM OK
20 DEC 17	11:30:32	GRD V29	0.00 PPM OK	3.27 PPM OK
20 DEC 17	11:47:29	GRD U29	0.00 PPM OK	3.81 PPM OK
20 DEC 17	12:04:50	GRD T29	0.00 PPM OK	3.47 PPM OK
20 DEC 17	12:21:44	GRD S29	0.00 PPM OK	3.20 PPM OK
20 DEC 17	12:39:08	GRD R29	0.00 PPM OK	17.17 PPM OK
20 DEC 17	12:55:57	GRD Q29	0.00 PPM OK	4.26 PPM OK
20 DEC 17	13:12:16	GRD P29	0.00 PPM OK	2.69 PPM OK
20 DEC 17	13:28:50	GRD O29	0.00 PPM OK	2.68 PPM OK
22 DEC 17	08:41:07	GRD A3	0.00 PPM OK	1.61 PPM OK
22 DEC 17	08:58:10	GRD B3	0.00 PPM OK	1.87 PPM OK
22 DEC 17	09:15:13	GRD C3	0.00 PPM OK	1.58 PPM OK
22 DEC 17	09:32:17	GRD D3	0.00 PPM OK	2.36 PPM OK

22 DEC 17 09:49:34	GRD E3	0.00 PPM OK	2.19 PPM OK
22 DEC 17 10:07:07	GRD F3	0.00 PPM OK	2.50 PPM OK
22 DEC 17 10:23:23	GRD G3	0.00 PPM OK	2.24 PPM OK
22 DEC 17 10:40:05	GRD H3	0.00 PPM OK	2.65 PPM OK
22 DEC 17 10:58:43	GRD E8	0.00 PPM OK	2.35 PPM OK
22 DEC 17 11:16:51	GRD F8	0.00 PPM OK	2.59 PPM OK
22 DEC 17 11:34:10	GRD G8	0.00 PPM OK	2.68 PPM OK
22 DEC 17 11:51:07	GRD H8	0.00 PPM OK	2.69 PPM OK

END

LOGGED DATA

VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
22 DEC 17 08:36:04	GRDB1	0.00 PPM OK	15.92 PPM OK	
22 DEC 17 08:54:50	GRDC1	0.00 PPM OK	7.39 PPM OK	
22 DEC 17 09:11:09	GRDD1	0.00 PPM OK	4.87 PPM OK	
22 DEC 17 09:26:56	GRDG1	0.00 PPM OK	3.93 PPM OK	
22 DEC 17 09:43:34	GRDF1	0.00 PPM OK	2.63 PPM OK	
22 DEC 17 10:06:16	GRDE1	0.00 PPM OK	5.33 PPM OK	
22 DEC 17 10:22:08	GRDH1	0.00 PPM OK	1.09 PPM OK	
22 DEC 17 10:38:29	GRDA6	0.00 PPM OK	0.39 PPM OK	
22 DEC 17 10:54:40	GRDB6	0.00 PPM OK	0.02 PPM OK	
22 DEC 17 11:10:12	GRDC6	0.00 PPM OK	0.07 PPM OK	
22 DEC 17 11:26:12	GRDD6	0.00 PPM OK	0.04 PPM OK	
22 DEC 17 11:41:51	GRDE6	0.00 PPM OK	0.52 PPM OK	

END

LOGGED DATA

VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
22 DEC 17 08:37:41	GRDA4	0.00 PPM OK	2.58 PPM OK	
22 DEC 17 08:54:14	GRDB4	0.00 PPM OK	3.07 PPM OK	
22 DEC 17 09:12:30	GRDC4	0.00 PPM OK	3.39 PPM OK	
22 DEC 17 09:28:52	GRDD4	0.00 PPM OK	3.72 PPM OK	
22 DEC 17 09:45:45	GRDE4	0.00 PPM OK	5.75 PPM OK	
22 DEC 17 10:05:26	GRDF4	0.00 PPM OK	4.29 PPM OK	
22 DEC 17 10:24:33	GRDG4	0.00 PPM OK	4.50 PPM OK	
22 DEC 17 10:41:21	GRDH4	0.00 PPM OK	4.74 PPM OK	
22 DEC 17 10:58:27	GRDH7	0.00 PPM OK	4.38 PPM DET_FAIL	
22 DEC 17 11:14:59	GRDA8	0.00 PPM OK	4.38 PPM OK	
22 DEC 17 11:31:35	GRDB8	0.00 PPM OK	4.40 PPM OK	

22 DEC 17 11:47:29	GRDC8	0.00 PPM OK	6.93 PPM OK
22 DEC 17 12:03:30	GRDD8	0.00 PPM OK	4.61 PPM OK

END

LOGGED DATA

VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
22 DEC 17	08:35:33	GRDA5	0.00 PPM OK	2.60 PPM OK
22 DEC 17	08:51:06	GRDB5	0.00 PPM OK	3.05 PPM OK
22 DEC 17	09:06:36	GRDC5	0.00 PPM OK	3.25 PPM OK
22 DEC 17	09:22:11	GRDD5	0.00 PPM OK	3.77 PPM OK
22 DEC 17	09:37:47	GRDE5	0.00 PPM OK	4.43 PPM OK
22 DEC 17	09:53:30	GRDF5	0.00 PPM OK	4.63 PPM OK
22 DEC 17	10:11:32	GRDG5	0.00 PPM OK	4.87 PPM OK
22 DEC 17	10:27:20	GRDH5	0.00 PPM OK	5.26 PPM OK
22 DEC 17	10:42:58	GRDF6	0.00 PPM OK	5.38 PPM OK
22 DEC 17	10:58:24	GRDG6	0.00 PPM OK	5.68 PPM OK
22 DEC 17	11:13:51	GRDH6	0.00 PPM OK	5.77 PPM OK
22 DEC 17	11:29:20	GRDA7	0.00 PPM OK	6.18 PPM OK
22 DEC 17	11:44:58	GRDB7	0.00 PPM OK	8.32 PPM OK

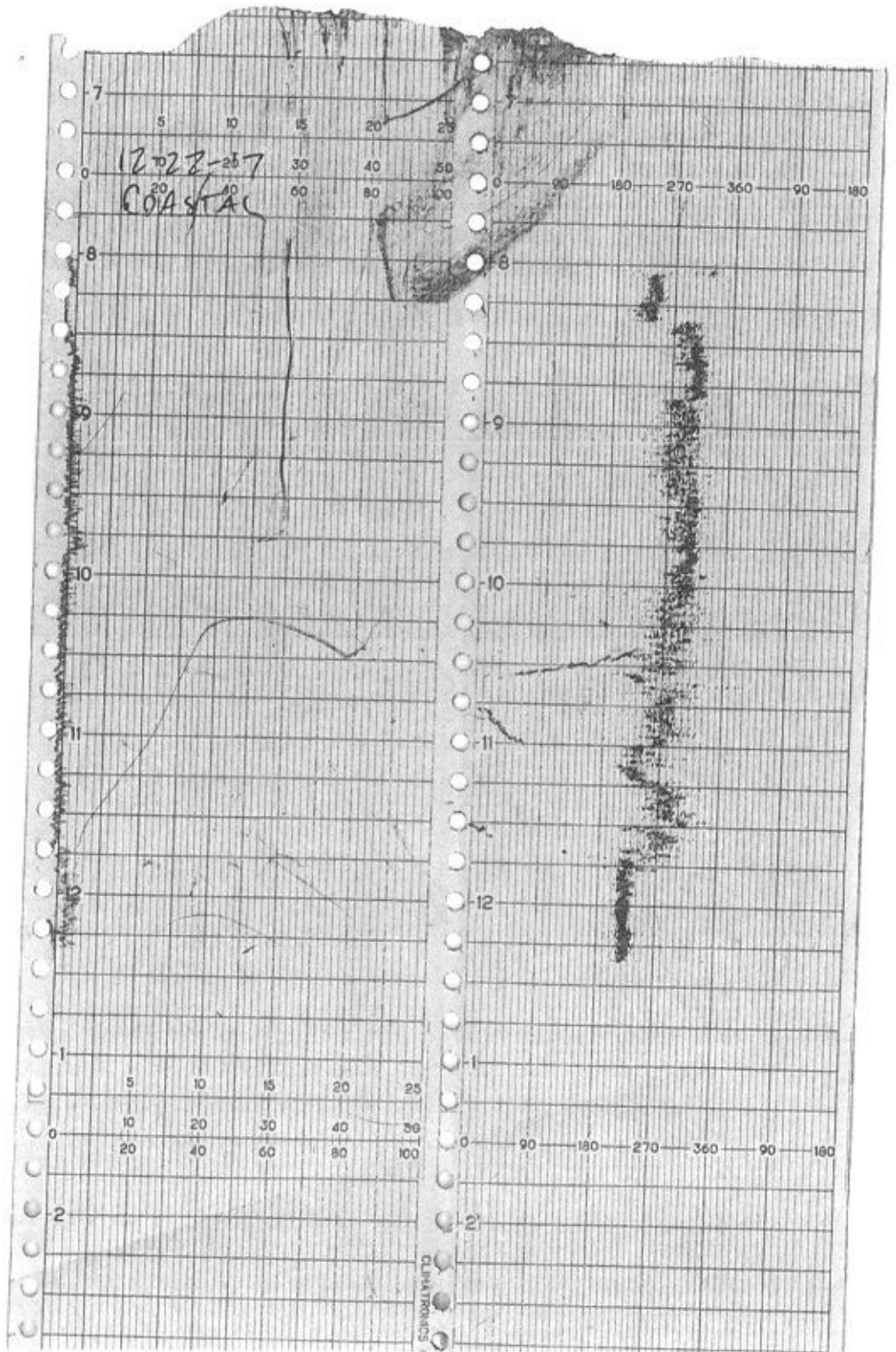
END

12-22-17 COASTAL LANDFILL ISM

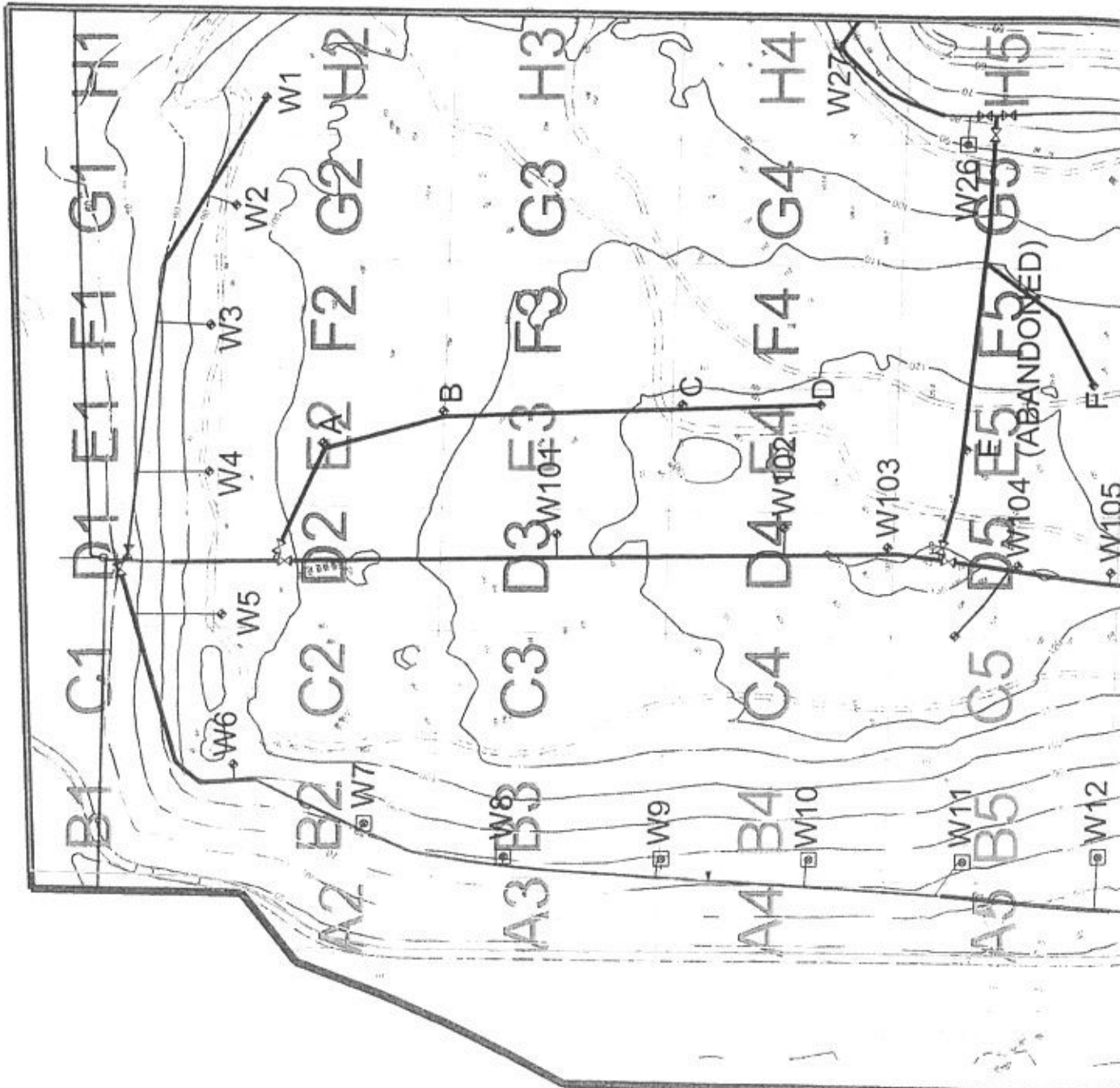
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1	34.22893197	-119.215579	2017-12-22T19:10:13Z	0.02PPM	GRDB6
2	34.22889702	-119.214453	2017-12-22T19:40:49Z	0.04PPM	GRDD6
3	34.22886299	-119.215002	2017-12-22T19:11:02Z	0.07PPM	GRDC6
4	34.22882896	-119.215995	2017-12-22T18:42:15Z	0.39PPM	GRDA6
5	34.22894304	-119.213876	2017-12-22T19:42:25Z	0.52PPM	GRDE6
6	34.23123901	-119.214965	2017-12-22T17:15:34Z	1.58PPM	GRDC3
7	34.23123498	-119.215938	2017-12-22T16:41:35Z	1.61PPM	GRDA3
8	34.23125401	-119.215552	2017-12-22T16:58:32Z	1.87PPM	GRDB3
9	34.23296903	-119.215649	2017-12-22T16:39:14Z	15.92PPM	GRDB1
10	34.23123096	-119.213934	2017-12-22T17:50:24Z	2.19PPM	GRDE3
11	34.23121998	-119.212798	2017-12-22T18:24:23Z	2.24PPM	GRDG3
12	34.22738099	-119.213849	2017-12-22T19:01:10Z	2.35PPM	GRDE8
13	34.23125502	-119.21445	2017-12-22T17:33:28Z	2.36PPM	GRDD3
14	34.23124404	-119.213338	2017-12-22T18:07:50Z	2.50PPM	GRDF3
15	34.23045103	-119.215913	2017-12-22T16:36:01Z	2.58 PPM	GRDA4
16	34.22742097	-119.213318	2017-12-22T19:17:36Z	2.59PPM	GRDF8
17	34.22949901	-119.215988	2017-12-22T16:35:37Z	2.60PPM	GRDA5
18	34.23293299	-119.213366	2017-12-22T18:00:30Z	2.63PPM	GRDF1
19	34.23127002	-119.212277	2017-12-22T18:40:40Z	2.65PPM	GRDH3
20	34.22737403	-119.212723	2017-12-22T19:35:27Z	2.68PPM	GRDG8
21	34.22737403	-119.212184	2017-12-22T19:53:18Z	2.69PPM	GRDH8
22	34.229871	-119.215566	2017-12-22T16:51:36Z	3.05PPM	GRDC5
23	34.23055303	-119.215525	2017-12-22T16:54:04Z	3.07 PPM	GRDB4
24	34.22986697	-119.215072	2017-12-22T17:06:38Z	3.25PPM	GRDC5
25	34.23036	-119.215015	2017-12-22T17:10:49Z	3.39 PPM	GRDC4
26	34.23046201	-119.214318	2017-12-22T17:27:27Z	3.72 PPM	GRDD4
27	34.22942399	-119.214545	2017-12-22T17:39:02Z	3.77PPM	GRDD5
28	34.23289896	-119.212884	2017-12-22T17:28:00Z	3.93PPM	GRDG1
29	34.22803402	-119.213333	2017-12-22T19:31:30Z	3.97PPM	GRDF7
30	34.22800301	-119.213901	2017-12-22T19:15:39Z	3.99PPM	GRDE7
31	34.23200503	-119.212212	2017-12-22T18:27:43Z	4.07PPM	GRDH2
32	34.22799404	-119.214412	2017-12-22T18:59:39Z	4.08PPM	GRDD7
33	34.230446	-119.213389	2017-12-22T18:06:32Z	4.29 PPM	GRDF4
34	34.22792698	-119.214946	2017-12-22T18:43:37Z	4.32PPM	GRDC7
35	34.22797199	-119.212249	2017-12-22T18:56:48Z	4.38PPM	GRDH7
36	34.22721997	-119.216018	2017-12-22T19:13:52Z	4.38PPM	GRDA8
37	34.227197	-119.215521	2017-12-22T19:29:45Z	4.40PPM	GRDB8
38	34.22947202	-119.213917	2017-12-22T17:39:59Z	4.43PPM	GRDE5
39	34.23212003	-119.213311	2017-12-22T17:55:30Z	4.50PPM	GRHF2
40	34.23050299	-119.212866	2017-12-22T18:23:12Z	4.50PPM	GRDG4
41	34.23217803	-119.214936	2017-12-22T17:06:55Z	4.61PPM	GRDC2
42	34.22957	-119.213325	2017-12-22T17:56:07Z	4.63PPM	GRDF5
43	34.22721997	-119.214355	2017-12-22T20:01:58Z	4.64PPM	GRDD8
44	34.23212204	-119.214347	2017-12-22T17:23:00Z	4.72PPM	GRDD2
45	34.23045798	-119.212209	2017-12-22T18:40:29Z	4.74PPM	GRDH4

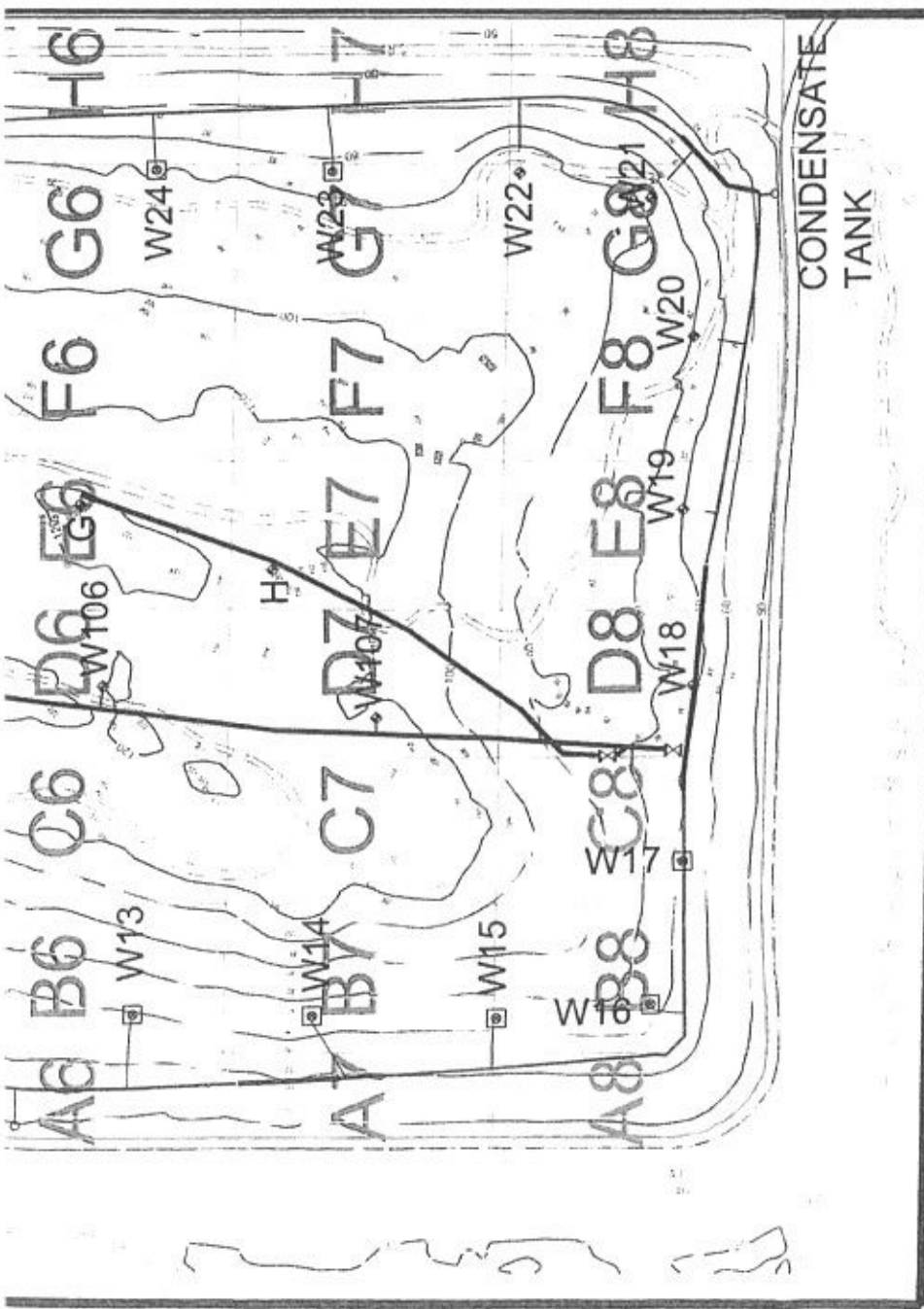
46	34.23286401	-119.214319	2017-12-22T17:10:33Z	4.87PPM	GRDG1
47	34.22947696	-119.21274	2017-12-22T18:27:50Z	4.87PPM	GRDG5
48	34.23200897	-119.215969	2017-12-22T16:34:52Z	4.88PPM	GRDA2
49	34.23216001	-119.213802	2017-12-22T17:39:12Z	5.00PPM	GRDE2
50	34.23212204	-119.21556	2017-12-22T16:50:52Z	5.01PPM	GRDB2
51	34.23206404	-119.212757	2017-12-22T18:11:46Z	5.18PPM	GRDG2
52	34.22949197	-119.212176	2017-12-22T18:28:54Z	5.26PPM	GRDH5
53	34.23288697	-119.213903	2017-12-22T18:07:09Z	5.33PPM	GRDE1
54	34.22863802	-119.213351	2017-12-22T18:43:18Z	5.38PPM	GRDF6
55	34.228937	-119.212764	2017-12-22T18:58:23Z	5.68PPM	GRDG6
56	34.23049201	-119.213899	2017-12-22T17:47:31Z	5.75PPM	GRDE4
57	34.22872502	-119.212142	2017-12-22T19:13:43Z	5.77PPM	GRDH6
58	34.22802304	-119.212753	2017-12-22T19:47:17Z	5.94PPM	GRDG7
59	34.22814801	-119.215969	2017-12-22T19:29:42Z	6.18PPM	GRDB7
60	34.22723204	-119.214958	2017-12-22T19:45:29Z	6.93PPM	GRDC8
61	34.232934	-119.215067	2017-12-22T16:55:00Z	7.39PPM	GRDC1
62	34.22801801	-119.215423	2017-12-22T19:44:53Z	8.32PPM	GRDB7

WIND SPEED & DIRECTION CHART ROLL

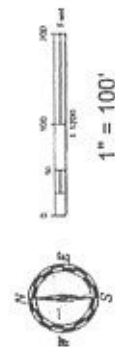


SANTA CLARA RIVER





*4th QTR
INSTANTANEOUS 2017
GRID S SAMPLED*



LEGEND

	LFG WELL LOCATION (SURVEYED)
	ABOVE GROUND LFG HEADER
	BURIED LFG HEADER
	COMPRESSED AIR/CONDENSATE LINE (TO AND FROM PUMP)
	CONDENSATE SUMP WITH PUMP
	CAMERA ACCESS VAULT
	BUTTERFLY VALVE WITH ACCESS VAULT (LFG, AIR, CONDENSATE)
	MAJOR CONTOUR
	MINOR CONTOUR
	PROPERTY LINE

REVISIONS		BY
VENTURA REGIONAL SANITATION DISTRICT 1001 Partridge Drive, Suite 150 Ventura, California 93003-5562		
COASTAL LANDFILL SWEEP GRID Topography date: December 3, 2009 by GPSI Updated June 21, 2010 by VRSD		Date: 01/06/2014 Drawn By: JJW
DWG: 12132030_COASTAL MONITORING GRID.dwg FILE SOLIDWASTE UNIVERSITES Date JAN 06, 2014		SHEET of

**SANTA CLARA LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: Michael Opre 19 Kevin Reinker 18
Lain Wade 10
Nick Hertzway 17

Date: 12-22-17 Instrument Used: TVA1000

Temperature: 59° Upwind BG: 2 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
R1	MO	1144	1159	6.42	1	2	12	
S1	MO	1159	1214	6.95	1	2	12	
T1	LW	1148	1203	3.98	1	2	12	
V1	LW	1204	1218	3.88	1	2	12	
B3	NH	1142	1157	0.33	1	2	12	
C3	KR	1202	1217	4.59	1	2	12	

Attach Calibration Sheet
 Attach site map showing grid ID

TVA CALIBRATION LOG

Landfill: SANTA CARA

OPERATOR INITIALS	DATE	SN #	CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS							
			LOW		MED		HIGH		LOW		MED		HIGH			
			PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT		
MO	12-22-17	1035045571														
LW	↓	1036346773														
NH		1032645720														
KR	↓	1034345584														

12-22-17 SANTA CLARA LANDFILL ISM

LOGGED DATA

VER= 1.00

VOC DATA

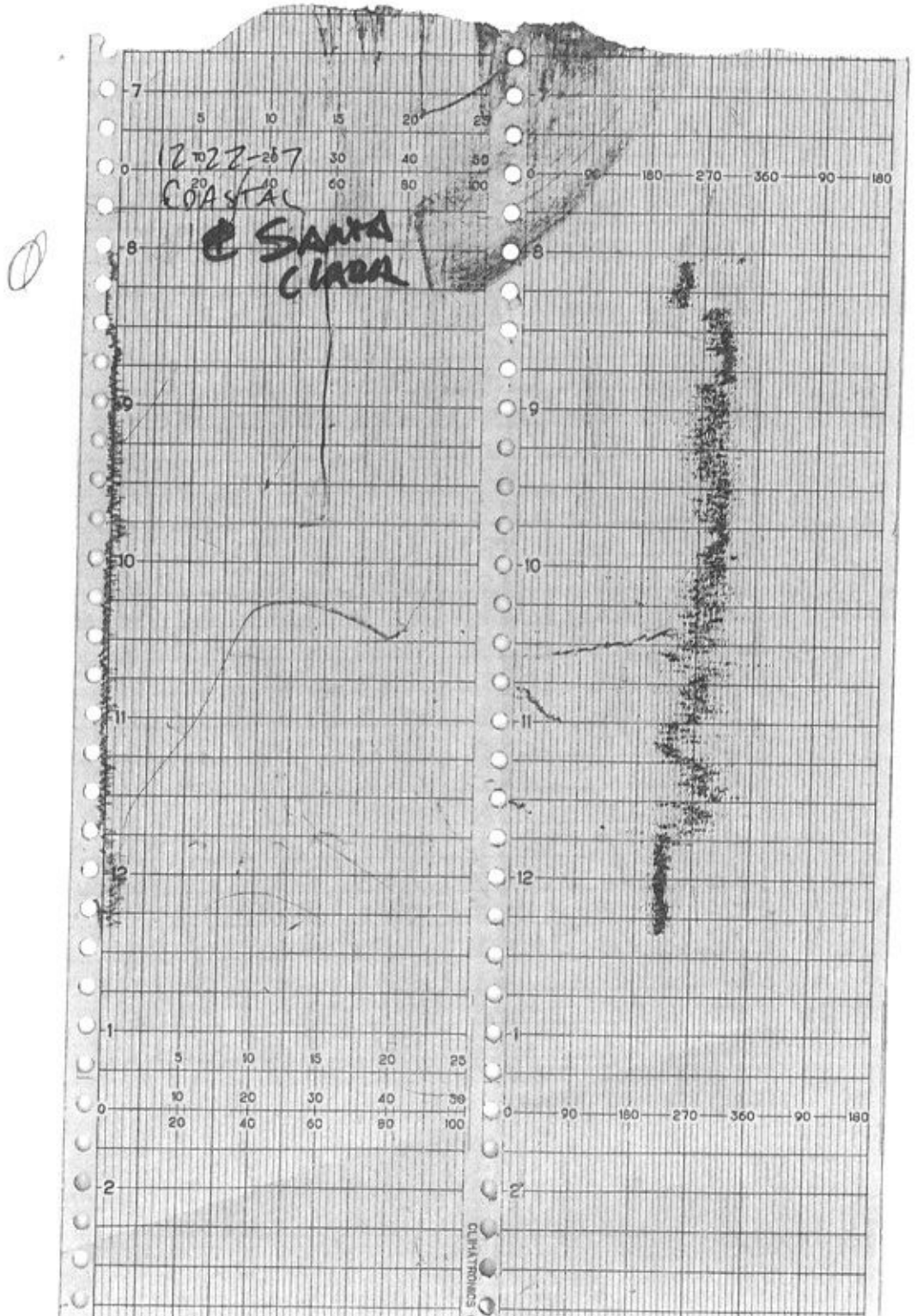
DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
22 DEC 17	12:00:29	GRDR1	0.00 PPM OK	6.42 PPM OK
22 DEC 17	12:15:56	GRDS1	0.00 PPM OK	6.45 PPM OK
22 DEC 17	13:07:38	GRDT1	0.00 PPM OK	3.98 PPM OK
22 DEC 17	13:23:57	GRDU1	0.00 PPM OK	3.88 PPM OK
22 DEC 17	11:58:22	GRDB3	0.00 PPM OK	0.33 PPM OK
22 DEC 17	12:20:02	GRDC3	0.00 PPM OK	4.59 PPM OK

END

12-22-17 SANTA CLARA LANDFILL ISM

ID	lat	lon	time	name	cmt
1	34.23341998	-119.210715	2017-12-22T20:04:16Z	0.33PPM	GRDB3
2	34.23447803	-119.196936	2017-12-22T20:19:38Z	3.88PPM	GRDU1
3	34.23445799	-119.1975	2017-12-22T20:03:27Z	3.98PPM	GRDT1
4	34.23346298	-119.209986	2017-12-22T20:18:04Z	4.59PPM	GRDC3
5	34.23440997	-119.198755	2017-12-22T20:00:18Z	6.42PPM	GRDR1
6	34.23444198	-119.198174	2017-12-22T20:15:38Z	6.45PPM	GRDS1

WIND SPEED & DIRECTION CHART ROLL



**SANTA CLARA LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: Michael O'Rourke 19 Kevin Runkel 26 Jesse Manning 15
Charles Roberts 18 Loren Wade 10
DAN JOHNS 17 PEDRO ZAPALAZA 11

Date: 12-26-17 Instrument Used: TVA1000

Temperature: 46° Upwind BG: 2 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
L7	MO	0812	0827	3.21	1	2	2	
M7	MO	0828	0843	3.72	1	2	2	
N7	MO	0843	0858	4.55	1	2	2	
O7	MO	0900	0915	3.79	1	2	2	
P7	MO	0916	0931	4.21	1	2	2	
Q7	MO	0931	0946	4.47	1	2	2	
A8	MO	0948	1003	4.60	1	2	8	
B8	MO	1004	1019	4.62	1	2	2	
C8	MO	1020	1035	4.69	1	2	8	
D8	MO	1036	1051	5.83	1	2	8	
E8	MO	1051	1106	10.51	1	2	7	
F8	MO	1107	1122	5.24	1	2	8	
G8	MO	1122	1137	5.42	1	2	12	
H8	MO	1138	1153	5.77	1	2	9	
I8	MM	1153	1208	5.74	1	2	9	
J8	MO	1209	1224	5.69	1	2	9	
K8	MO	1225	1240	5.82	1	2	9	
L8	MO	1240	1255	6.05	1	2	4	
G5	CR	0813	0828	2.03	1	2	2	
P5	CR	0828	0843	2.28	1	2	2	
Q5	CR	0844	0859	3.28	1	2	2	
R5	CR	0859	0914	2.71	1	2	2	
S5	CR	0915	0930	3.52	1	2	2	
A6	CR	0931	0946	3.09	1	2	2	
B6	CR	0947	1002	2.89	1	2	8	
C6	CR	1002	1017	3.12	1	2	2	
D6	CR	1018	1033	3.10	1	2	8	
E6	CR	1033	1048	3.08	1	2	8	
F6	CR	1049	1104	3.90	1	2	7	
G6	CR	1105	1120	3.12	1	2	8	

Attach Calibration Sheet
 Attach site map showing grid ID

**SANTA CLARA LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: Michael ORUE 19 Kevin Binkler 26 Jesse Mennig 15
Charles ROBERTS 18 Leyn Wade 10
DAN JOHN 17 Pedro ZARAGOZA 11

Date: 12-26-17 Instrument Used: TVA1000

Temperature: 46° Upwind BG: 2 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
H6	CR	1120	1135	3.22	1	2	12	
I6	CR	1136	1150	3.18	1	2	9	
J6	CR	1151	1206	3.22	1	2	9	
K6	CR	1207	1222	3.06	1	2	9	
L6	CR	1223	1238	3.35	1	2	9	
H2	DJ	0805	0820	23.57	1	2	2	
I2	DJ	0820	0835	13.47	1	2	2	
J2	DJ	0836	0851	10.09	1	2	2	
K2	DJ	0852	0907	6.43	1	2	2	
L2	DJ	0910	0925	4.60	1	2	2	
M2	DJ	0925	0940	4.72	1	2	2	
N2	DJ	0942	0957	2.82	1	2	8	
O2	DJ	1000	1015	1.41	1	2	2	
P2	DJ	1015	1030	1.72	1	2	8	
Q2	DJ	1030	1045	0.76	1	2	8	
R2	DJ	1050	1105	16.83	1	2	7	
S2	DJ	1105	1120	0.35	1	2	8	
T2	DJ	1120	1135	0.62	1	2	12	
U2	DJ	1136	1151	0.77	1	2	9	
V2	DJ	1151	1206	1.16	1	2	9	
U3	DJ	1210	1225	1.38	1	2	10	
V3	DJ	1225	1240	0.48	1	2	9	
D3	KR	0809	0824	2.85	1	2	2	
E3	KR	0825	0840	3.11	1	2	2	
F3	KR	0844	0859	3.66	1	2	2	
G3	KR	0901	0916	3.78	1	2	2	
H3	KR	0919	0934	7.45	1	2	2	
I3	KR	0936	0951	3.99	1	2	8	
J3	KR	0953	1008	3.83	1	2	2	
K3	KR	1010	1025	4.47	1	2	8	

Attach Calibration Sheet
 Attach site map showing grid ID

**SANTA CLARA LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: Michael ORX 19 Kevin Riniker 26 Jesse Manning 15
Charles Roberts 18 Leigh Wade 10
DAN SCHWAS 17 Pedro ZARAGOZA 11

Date: 12-26-17 Instrument Used: TVA1000

Temperature: 46° Upwind BG: 2 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
L3	KR	1028	1043	4.24	1	2	8	
M3	KR	1045	1100	6.63	1	2	7	
N3	KR	1101	1116	4.20	1	2	8	
O3	KR	1117	1132	4.66	1	2	12	
P3	KR	1133	1148	4.37	1	2	9	
Q3	KR	1151	1206	4.41	1	2	9	
R3	KR	1207	1222	4.33	1	2	10	
S3	KR	1223	1238	4.31	1	2	9	
T3	KR	1239	1254	4.40	1	2	9	
S4	LW	0810	0825	5.36	1	2	2	
T4	LW	0827	0842	5.92	1	2	2	
U4	LW	0844	0859	5.24	1	2	2	
A5	LW	0900	0915	5.19	1	2	2	
B5	LW	0917	0932	6.63	1	2	2	
C5	LW	0934	0949	5.16	1	2	8	
D5	LW	0950	1005	18.61	1	2	2	
E5	LW	1006	1021	5.65	1	2	2	
F5	LW	1023	1038	4.28	1	2	8	
G5	LW	1039	1054	4.81	1	2	8	
H5	LW	1055	1110	4.40	1	2	7	
I5	LW	1112	1127	4.13	1	2	12	
J5	LW	1128	1143	4.14	1	2	12	
K5	LW	1145	1200	3.87	1	2	9	
L5	LW	1201	1216	3.87	1	2	9	
M5	LW	1218	1233	3.96	1	2	10	
N5	LW	1234	1249	3.91	1	2	9	
M8	LW	1250	1305	3.68	1	2	9	
M6	PZ	0813	0828	1.65	1	2	2	
N6	PZ	0829	0844	1.81	1	2	2	
O6	PZ	0845	0900	2.41	1	2	2	

Attach Calibration Sheet
 Attach site map showing grid ID

**SANTA CLARA LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: Michael Orut 19 Kevin Ranker 26 Jesse Mennard 15
Charles Roberts 18 Leigh Wade 10
DAN JOHNS 12 PEDRO ZARAGUZA 11

Date: 12-26-17 Instrument Used: TVA1000

Temperature: 46° Upwind BG: 2 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
P6	PZ	0902	0917	4.17	1	2	2	
Q6	PZ	0919	0934	3.07	1	2	2	
R6	PZ	0935	0950	2.63	1	2	8	
A7	PZ	0952	1007	2.76	1	2	2	
B7	PZ	1008	1023	4.49	1	2	2	
C7	PZ	1025	1040	2.55	1	2	8	
D7	PZ	1041	1056	5.51	1	2	8	
E7	PZ	1058	1113	2.51	1	2	7	
F7	PZ	1115	1130	2.81	1	2	12	
G7	PZ	1131	1146	2.63	1	2	12	
H7	PZ	1147	1203	2.77	1	2	9	
I7	PZ	1204	1219	2.75	1	2	9	
J7	PZ	1220	1235	2.94	1	2	10	
K7	PZ	1235	1250	2.93	1	2	9	
B4	JM	0811	0826	2.55	1	2	2	
C4	JM	0827	0842	2.77	1	2	2	
D4	JM	0901	0916	3.12	1	2	2	
E4	JM	0919	0934	3.50	1	2	2	
F4	JM	0938	0953	3.16	1	2	8	
G4	JM	0955	1010	3.90	1	2	2	
H4	JM	1012	1027	3.97	1	2	2	
I4	JM	1029	1044	4.69	1	2	8	
J4	JM	1046	1101	2.21	1	2	8	
K4	JM	1103	1118	1.89	1	2	7	
L4	JM	1120	1135	2.16	1	2	12	
M4	JM	1136	1151	1.70	1	2	12	
N4	JM	1153	1206	1.52	1	2	9	
O4	JM	1209	1224	1.99	1	2	9	
P4	JM	1226	1241	1.68	1	2	10	
Q4	JM	1242	1257	1.43	1	2	9	

Attach Calibration Sheet
 Attach site map showing grid ID

**SANTA CLARA LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: Michael Cruz 19 Kevin Rinker 26 Jesse Manning 15
Charles Roberts 18 Loren Wade 10
DAN JOHNS 17 Pedro Zaragoza 11

Date: 12-26-17 Instrument Used: TVA1000

Temperature: _____ Upwind BG: 2 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
<u>R4</u>	<u>CR</u>	<u>1239</u>	<u>1254</u>	<u>3.38</u>	<u>1</u>	<u>2</u>	<u>9</u>	

Attach Calibration Sheet
Attach site map showing grid ID

**RES
ENVIRONMENTAL INC.**

TVA CALIBRATION LOG

Landfill: *Sawtooth*

OPERATOR INITIALS	DATE	SN #	CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS											
			LOW			MED			HIGH			LOW			MED			HIGH		
			PPM	ACT	ACT	PPM	ACT	ACT	PPM	ACT	ACT	PPM	ACT	ACT	PPM	ACT	ACT	PPM	ACT	ACT
<i>MO</i>	<i>12-21-27</i>	<i>1025045571</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>CR</i>	}	<i>1024245584</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>OJ</i>		<i>1022645720</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>KA</i>		<i>1030945322</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>GW</i>		<i>1026246772</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>PZ</i>	}	<i>1026346774</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>JM</i>		<i>1026346772</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

12-26-17 SANTA CLARA LANDFILL ISM

LOGGED DATA

VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
26 DEC 17	09:29:23	GRDS4	0.00 PPM OK	5.36 PPM OK
26 DEC 17	09:47:21	GRDT4	0.00 PPM OK	5.92 PPM OK
26 DEC 17	10:04:16	GRDU4	0.00 PPM OK	5.24 PPM OK
26 DEC 17	10:20:23	GRDA5	0.00 PPM OK	5.19 PPM OK
26 DEC 17	10:37:00	GRDB5	0.00 PPM OK	6.63 PPM OK
26 DEC 17	10:53:31	GRDC5	0.00 PPM OK	5.16 PPM OK
26 DEC 17	11:09:38	GRDD5	0.00 PPM OK	18.61 PPM OK
26 DEC 17	11:26:21	GRDE5	0.00 PPM OK	5.65 PPM OK
26 DEC 17	11:42:52	GRDF5	0.00 PPM OK	4.28 PPM OK
26 DEC 17	11:59:12	GRDG5	0.00 PPM OK	4.81 PPM OK
26 DEC 17	12:15:32	GRDH5	0.00 PPM OK	4.40 PPM OK
26 DEC 17	12:32:08	GRDI5	0.00 PPM OK	4.13 PPM OK
26 DEC 17	12:48:36	GRDJ5	0.00 PPM OK	4.14 PPM OK
26 DEC 17	13:05:02	GRDK5	0.00 PPM OK	3.87 PPM OK
26 DEC 17	13:21:04	GRDL5	0.00 PPM OK	3.87 PPM OK
26 DEC 17	13:38:08	GRDM5	0.00 PPM OK	3.96 PPM OK
26 DEC 17	13:54:07	GRDN5	0.00 PPM OK	3.91 PPM OK
26 DEC 17	14:10:06	GRDM8	0.00 PPM OK	3.68 PPM OK

END

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VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
26 DEC 17	08:29:00	GRDM6	0.00 PPM OK	1.65 PPM OK
26 DEC 17	08:46:16	GRDN6	0.00 PPM OK	1.81 PPM OK
26 DEC 17	09:02:17	GRDO6	0.00 PPM OK	2.41 PPM OK
26 DEC 17	09:18:24	GRDP6	0.00 PPM OK	4.17 PPM OK
26 DEC 17	09:34:47	GRDQ6	0.00 PPM OK	3.07 PPM OK
26 DEC 17	09:51:45	GRDR6	0.00 PPM OK	2.63 PPM OK
26 DEC 17	10:07:20	GRDA7	0.00 PPM OK	2.76 PPM OK
26 DEC 17	10:25:21	GRDB7	0.00 PPM OK	4.49 PPM OK
26 DEC 17	10:41:53	GRDC7	0.00 PPM OK	2.55 PPM OK
26 DEC 17	10:57:46	GRDD7	0.00 PPM OK	5.51 PPM OK
26 DEC 17	11:13:52	GRDE7	0.00 PPM OK	2.51 PPM OK
26 DEC 17	11:31:19	GRDF7	0.00 PPM OK	2.81 PPM OK
26 DEC 17	11:47:01	GRDG7	0.00 PPM OK	2.63 PPM OK
26 DEC 17	12:04:07	GRDH7	0.00 PPM OK	2.77 PPM OK

26 DEC 17 12:19:51	GRDI7	0.00 PPM OK	2.75 PPM OK
26 DEC 17 12:35:32	GRDJ7	0.00 PPM OK	2.94 PPM OK
26 DEC 17 12:50:52	GRDK7	0.00 PPM OK	2.93 PPM OK

END

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VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
26 DEC 17 08:27:12	GRDB4	0.00 PPM OK	2.55 PPM OK	
26 DEC 17 08:42:52	GRDC4	0.00 PPM OK	2.77 PPM OK	
26 DEC 17 09:16:52	GRDD4	0.00 PPM OK	3.12 PPM OK	
26 DEC 17 09:36:38	GRDE4	0.00 PPM OK	3.50 PPM OK	
26 DEC 17 09:53:59	GRDF4	0.00 PPM OK	3.16 PPM OK	
26 DEC 17 10:11:20	GRDG4	0.00 PPM OK	3.90 PPM OK	
26 DEC 17 10:27:51	GRDH4	0.00 PPM OK	3.97 PPM OK	
26 DEC 17 10:45:11	GRDI4	0.00 PPM OK	4.69 PPM OK	
26 DEC 17 11:02:09	GRDJ4	0.00 PPM OK	2.21 PPM OK	
26 DEC 17 11:18:59	GRDK4	0.00 PPM OK	1.89 PPM OK	
26 DEC 17 11:35:59	GRDL4	0.00 PPM OK	2.16 PPM OK	
26 DEC 17 11:52:31	GRDM4	0.00 PPM OK	1.70 PPM OK	
26 DEC 17 12:08:59	GRDN4	0.00 PPM OK	1.52 PPM OK	
26 DEC 17 12:25:52	GRDO4	0.00 PPM OK	1.99 PPM OK	
26 DEC 17 12:41:57	GRDP4	0.00 PPM OK	1.68 PPM OK	
26 DEC 17 12:58:16	GRDQ4	0.00 PPM OK	1.43 PPM OK	

END

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VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
26 DEC 17 08:23:13	GRDH2	0.00 PPM OK	23.51 PPM OK	
26 DEC 17 08:39:34	GRDI2	0.00 PPM OK	13.47 PPM OK	
26 DEC 17 08:55:06	GRDJ2	0.00 PPM OK	10.09 PPM OK	
26 DEC 17 09:10:56	GRDK2	0.00 PPM OK	6.43 PPM OK	
26 DEC 17 09:26:37	GRDL2	0.00 PPM OK	4.60 PPM OK	
26 DEC 17 09:43:16	GRDM2	0.00 PPM OK	4.72 PPM OK	
26 DEC 17 09:59:16	GRDN2	0.00 PPM OK	2.82 PPM OK	
26 DEC 17 10:15:40	GRDO2	0.00 PPM OK	1.41 PPM OK	
26 DEC 17 10:33:00	GRDP2	0.00 PPM OK	1.72 PPM OK	
26 DEC 17 10:51:33	GRDQ2	0.00 PPM OK	0.76 PPM OK	
26 DEC 17 11:07:10	GRDR2	0.00 PPM OK	16.85 PPM OK	
26 DEC 17 11:23:11	GRDS2	0.00 PPM OK	0.35 PPM OK	

26 DEC 17 11:38:45	GRDT2	0.00 PPM OK	0.62 PPM OK
26 DEC 17 11:54:25	GRDU2	0.00 PPM OK	0.77 PPM OK
26 DEC 17 12:09:56	GRDV2	0.00 PPM OK	1.16 PPM OK
26 DEC 17 12:25:24	GRDU3	0.00 PPM OK	1.38 PPM OK
26 DEC 17 12:41:08	GRDV3	0.00 PPM OK	0.48 PPM OK

END

LOGGED DATA

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VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
26 DEC 17 08:30:27	GRDO5	0.00 PPM OK	2.03 PPM OK	
26 DEC 17 08:45:58	GRDP5	0.00 PPM OK	2.28 PPM OK	
26 DEC 17 09:01:25	GRDQ5	0.00 PPM OK	3.23 PPM OK	
26 DEC 17 09:17:15	GRDR5	0.00 PPM OK	2.71 PPM OK	
26 DEC 17 09:32:58	GRDS5	0.00 PPM OK	3.52 PPM OK	
26 DEC 17 09:48:42	GRDA6	0.00 PPM OK	3.09 PPM OK	
26 DEC 17 10:04:31	GRDB6	0.00 PPM OK	2.89 PPM OK	
26 DEC 17 10:20:10	GRDC6	0.00 PPM OK	3.12 PPM OK	
26 DEC 17 10:35:38	GRDD6	0.00 PPM OK	3.10 PPM OK	
26 DEC 17 10:51:13	GRDE6	0.00 PPM OK	3.08 PPM OK	
26 DEC 17 11:06:43	GRDF6	0.00 PPM OK	3.90 PPM OK	
26 DEC 17 11:22:38	GRDG6	0.00 PPM OK	3.12 PPM OK	
26 DEC 17 11:38:08	GRDH6	0.00 PPM OK	3.22 PPM OK	
26 DEC 17 11:53:34	GRDI6	0.00 PPM OK	3.18 PPM OK	
26 DEC 17 12:09:13	GRDJ6	0.00 PPM OK	3.22 PPM OK	
26 DEC 17 12:24:55	GRDK6	0.00 PPM OK	3.06 PPM OK	
26 DEC 17 12:41:16	GRDL6	0.00 PPM OK	3.35 PPM OK	
26 DEC 17 12:56:54	GRDR4	0.00 PPM OK	3.38 PPM OK	

END

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VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
26 DEC 17 08:29:24	GRDL7	0.00 PPM OK	3.21 PPM OK	
26 DEC 17 08:44:50	GRDM7	0.00 PPM OK	3.72 PPM OK	
26 DEC 17 09:00:12	GRDN7	0.00 PPM OK	4.55 PPM OK	
26 DEC 17 09:16:31	GRDO7	0.00 PPM OK	3.79 PPM OK	
26 DEC 17 09:32:28	GRDP7	0.00 PPM OK	4.27 PPM OK	
26 DEC 17 09:48:09	GRDQ7	0.00 PPM OK	4.47 PPM OK	
26 DEC 17 10:05:15	GRDA8	0.00 PPM OK	4.60 PPM OK	
26 DEC 17 10:21:15	GRDB8	0.00 PPM OK	4.62 PPM OK	

26 DEC 17 10:37:21	GRDC8	0.00 PPM OK	4.69 PPM OK
26 DEC 17 10:52:56	GRDD8	0.00 PPM OK	5.83 PPM OK
26 DEC 17 11:08:25	GRDE8	0.00 PPM OK	10.51 PPM OK
26 DEC 17 11:23:56	GRDF8	0.00 PPM OK	5.24 PPM OK
26 DEC 17 11:39:21	GRDG8	0.00 PPM OK	5.42 PPM OK
26 DEC 17 11:54:48	GRDH8	0.00 PPM OK	5.77 PPM OK
26 DEC 17 12:10:17	GRDI8	0.00 PPM OK	5.74 PPM OK
26 DEC 17 12:25:41	GRDJ8	0.00 PPM OK	5.69 PPM OK
26 DEC 17 12:42:00	GRDK8	0.00 PPM OK	5.82 PPM OK
26 DEC 17 12:57:22	GRDL8	0.00 PPM OK	6.05 PPM OK

END

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VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
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26 DEC 17 08:45:24	GRDE3	0.00 PPM OK	3.11 PPM OK	
26 DEC 17 09:02:55	GRDF3	0.00 PPM OK	3.66 PPM OK	
26 DEC 17 09:20:32	GRDG3	0.00 PPM OK	3.78 PPM OK	
26 DEC 17 09:38:05	GRDH3	0.00 PPM OK	7.45 PPM OK	
26 DEC 17 09:54:54	GRDI3	0.00 PPM OK	3.99 PPM OK	
26 DEC 17 10:12:52	GRDJ3	0.00 PPM OK	3.83 PPM OK	
26 DEC 17 10:30:01	GRDK3	0.00 PPM OK	4.47 PPM OK	
26 DEC 17 10:47:33	GRDL3	0.00 PPM OK	4.24 PPM OK	
26 DEC 17 11:04:03	GRDM3	0.00 PPM OK	6.63 PPM OK	
26 DEC 17 11:20:04	GRDN3	0.00 PPM OK	4.20 PPM OK	
26 DEC 17 11:36:24	GRDO3	0.00 PPM OK	4.66 PPM OK	
26 DEC 17 11:52:36	GRDP3	0.00 PPM OK	4.37 PPM OK	
26 DEC 17 12:10:30	GRDQ3	0.00 PPM OK	4.41 PPM OK	
26 DEC 17 12:26:35	GRDR3	0.00 PPM OK	4.33 PPM OK	
26 DEC 17 12:42:37	GRDS3	0.00 PPM OK	4.31 PPM OK	
26 DEC 17 12:58:30	GRDT3	0.00 PPM OK	4.40 PPM OK	

END

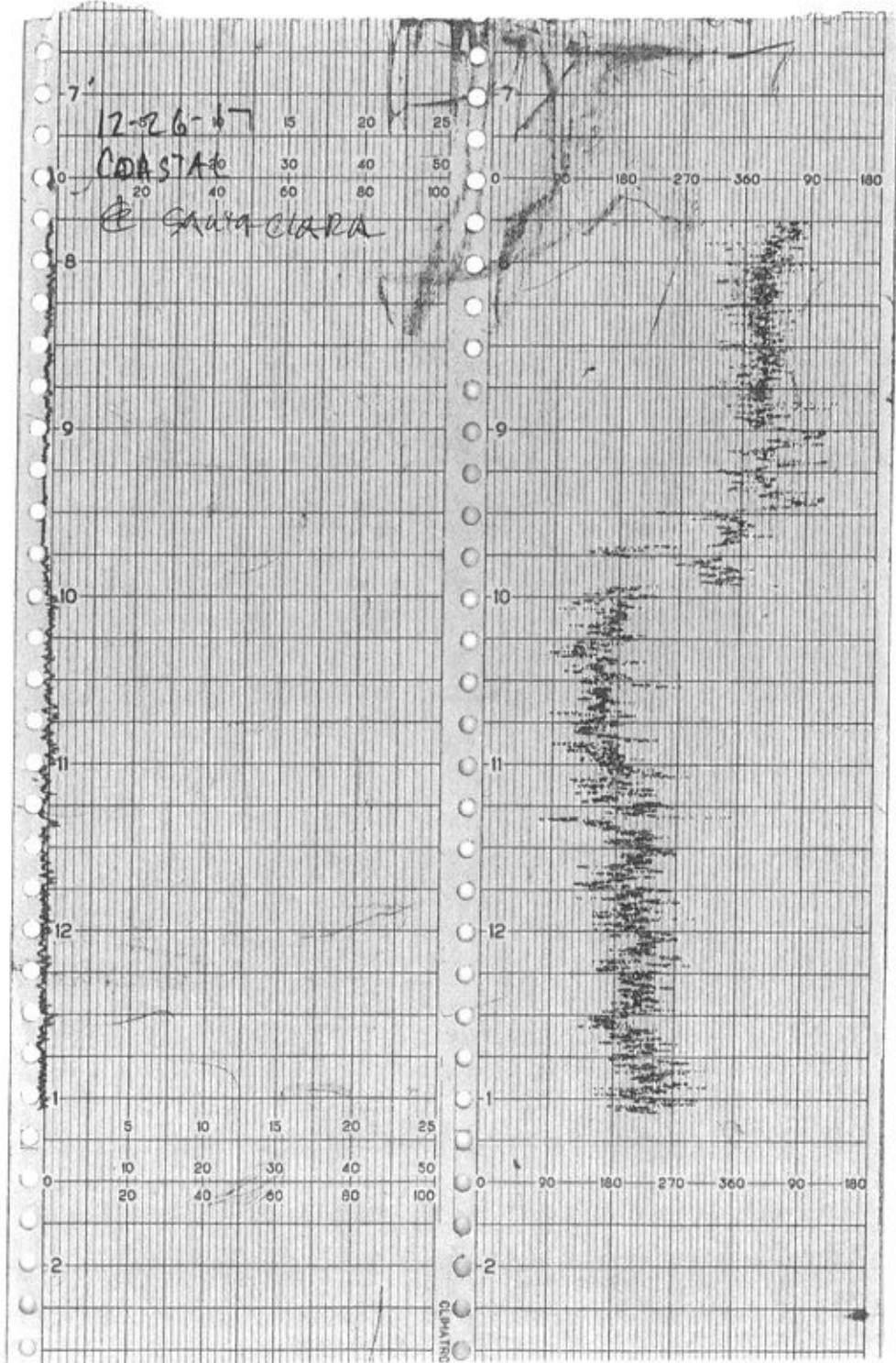
12-26-17 SANTA CLARA LANDFILL ISM

ID	lat	lon	time	name	cmt
1	34.23397997	-119.198285	2017-12-26T19:22:41Z	0.35PPM	GRDS2
2	34.233308	-119.19622	2017-12-26T20:39:25Z	0.48PPM	GRDV3
3	34.23392298	-119.197494	2017-12-26T19:38:55Z	0.62PPM	GRDT2
4	34.23392298	-119.199747	2017-12-26T18:50:37Z	0.76PPM	GRDQ2
5	34.23392298	-119.19681	2017-12-26T19:53:20Z	0.77PPM	GRDU2
6	34.23388903	-119.196153	2017-12-26T20:09:08Z	1.16PPM	GRDV2
7	34.23335301	-119.196837	2017-12-26T20:24:47Z	1.38PPM	GRDU3
8	34.23399196	-119.201222	2017-12-26T18:17:56Z	1.41PPM	GRDO2
9	34.23272202	-119.199697	2017-12-26T20:57:15Z	1.43Ppm	GrdQ4
10	34.23285202	-119.201877	2017-12-26T20:08:34Z	1.52PPM	GrdN4
11	34.23148703	-119.202828	2017-12-26T16:28:27Z	1.65Ppm	Grdm6
12	34.23282998	-119.200544	2017-12-26T20:41:06Z	1.68PPm	GrdP4
13	34.23280198	-119.202729	2017-12-26T19:51:48Z	1.70PPm	GrdN4
14	34.23396899	-119.200431	2017-12-26T18:32:35Z	1.72PPM	GRDP2
15	34.23145501	-119.201965	2017-12-26T16:43:39Z	1.81Ppm	Grdn6
16	34.23287197	-119.203976	2017-12-26T19:18:32Z	1.89PPM	GrdK4
17	34.23276301	-119.200993	2017-12-26T20:24:28Z	1.99PPm	GrdO4
18	34.23389196	-119.204857	2017-12-26T16:58:21Z	10.09PPM	GRDJ2
19	34.23031398	-119.208603	2017-12-26T19:08:15Z	10.51PPM	GRDE8
20	34.23389196	-119.205565	2017-12-26T16:43:07Z	13.47PPM	GRDI2
21	34.23402599	-119.199009	2017-12-26T19:07:12Z	16.85PPM	GRDR2
22	34.23221701	-119.20928	2017-12-26T18:05:07Z	18.61Ppm	Grdd5
23	34.23207804	-119.201273	2017-12-26T16:29:04Z	2.03PPM	GRDO5
24	34.23285403	-119.203423	2017-12-26T19:35:17Z	2.16PPM	GrdL4
25	34.23271196	-119.204749	2017-12-26T19:01:26Z	2.21PPM	GrdJ4
26	34.232072	-119.200597	2017-12-26T16:44:57Z	2.28PPM	GRDP5
27	34.23146197	-119.20126	2017-12-26T17:01:01Z	2.41Ppm	Grdo6
28	34.23092703	-119.208551	2017-12-26T19:16:24Z	2.51Ppm	Grde7
29	34.23105201	-119.210089	2017-12-26T18:40:40Z	2.55Ppm	Grdc7
30	34.23294498	-119.2107166	2017-12-27T13:12:09Z	2.55PPM1	GRDB4
31	34.23154201	-119.198964	2017-12-26T17:50:01Z	2.63Ppm	Grdr6
32	34.23097297	-119.207033	2017-12-26T19:47:04Z	2.63Ppm1	Grdg7
33	34.23203403	-119.199041	2017-12-26T17:16:17Z	2.71PPM	GRDR5
34	34.23080097	-119.205621	2017-12-26T20:20:52Z	2.75Ppm	Grdi7
35	34.23108503	-119.21149	2017-12-26T18:44:37Z	2.76Ppm	Grda7
36	34.230864	-119.206326	2017-12-26T20:03:01Z	2.77Ppm	Grdh7
37	34.23292855	-119.2100066	2017-12-27T13:12:10Z	2.77PPM1	GRDC4
38	34.23097598	-119.207838	2017-12-26T19:30:15Z	2.81Ppm	Grdf7
39	34.23402599	-119.201866	2017-12-26T18:00:31Z	2.82PPM	GRDN2
40	34.23342098	-119.20925	2017-12-26T17:22:09Z	2.85 Ppm	Grdd3
41	34.23163899	-119.210838	2017-12-26T18:03:41Z	2.89PPM	GRDB6
42	34.23078001	-119.204004	2017-12-26T20:53:30Z	2.93Ppm	Grdk7
43	34.23090801	-119.204854	2017-12-26T20:35:41Z	2.94Ppm	Grdj7
44	34.23387101	-119.206145	2017-12-26T16:29:55Z	23.51PPM	GRDH2
45	34.23148803	-119.204222	2017-12-26T20:25:24Z	3.06PPM	GRDK6

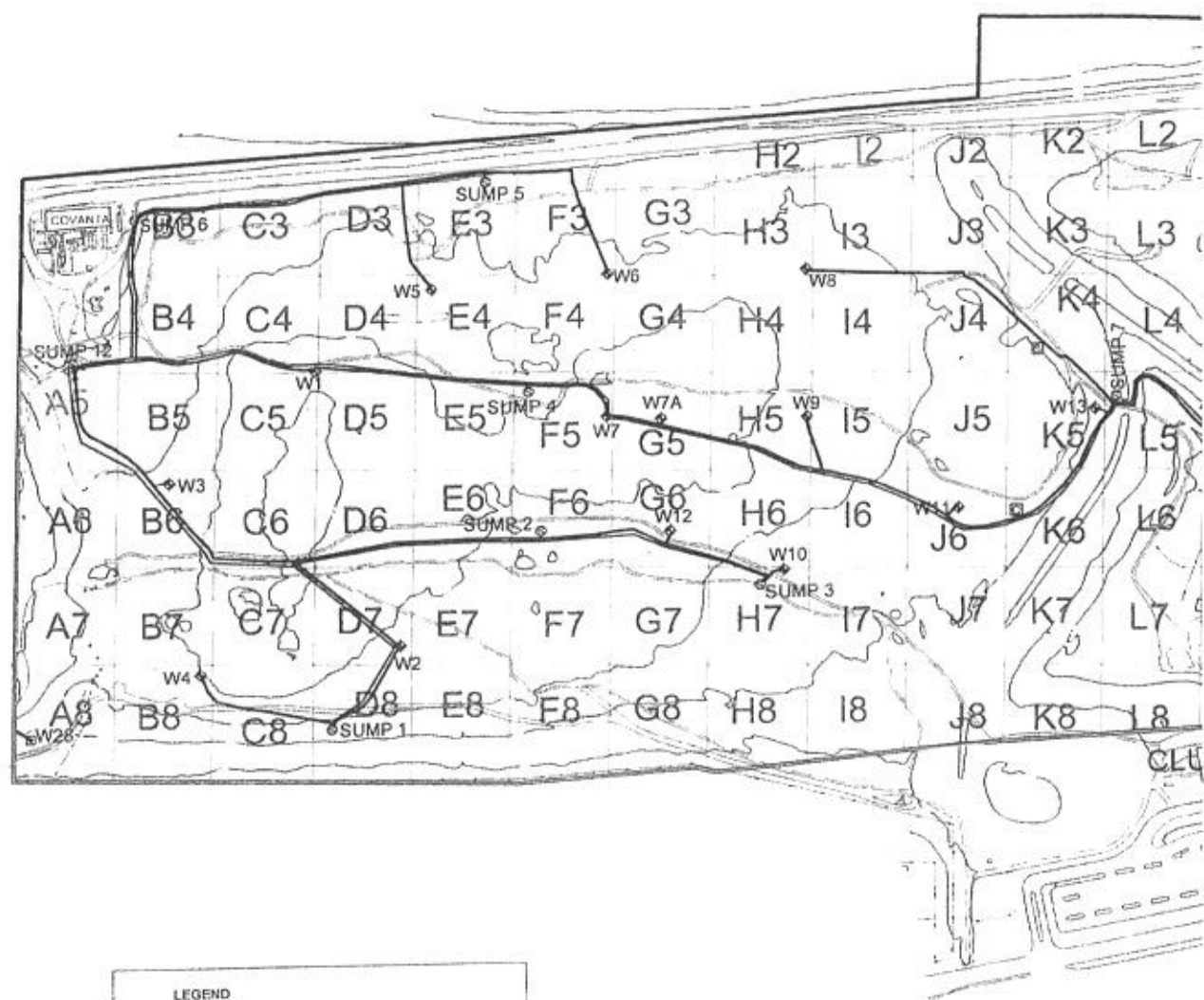
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48	34.23164603	-119.21149	2017-12-26T17:47:41Z	3.09PPM	GRDA6
49	34.23169599	-119.209313	2017-12-26T18:34:30Z	3.10PPM	GRDD6
50	34.23349701	-119.208525	2017-12-26T17:22:35Z	3.11Ppm	Grde3
51	34.23288404	-119.20924	2017-12-26T17:18:29Z	3.12Ppm	GrdD4
52	34.23162198	-119.207244	2017-12-26T19:21:38Z	3.12PPM1	GRDG6
53	34.23164	-119.210137	2017-12-26T18:19:43Z	3.12PPM2	GRDC6
54	34.23286501	-119.208552	2017-12-26T17:53:22Z	3.16PPM	Grdf4
55	34.23287264	-119.2078206	2017-12-27T13:12:13Z	3.16PPM1	GRDF4
56	34.23160102	-119.205649	2017-12-26T19:52:09Z	3.18PPM	GRDI6
57	34.23067801	-119.203334	2017-12-26T16:30:27Z	3.21PPM	GRDL7
58	34.23159599	-119.206359	2017-12-26T19:36:41Z	3.22PPM	GRDH6
59	34.23154998	-119.20485	2017-12-26T20:08:03Z	3.22PPM1	GRDJ6
60	34.23205499	-119.199767	2017-12-26T17:00:26Z	3.23PPM	GRDQ5
61	34.231539	-119.203433	2017-12-26T20:40:04Z	3.35PPM	GRDL6
62	34.232662	-119.199014	2017-12-26T20:54:54Z	3.38PPM	GRDR4
63	34.23286501	-119.208552	2017-12-26T17:36:30Z	3.50Ppm	Grde4
64	34.23220997	-119.19825	2017-12-26T17:32:11Z	3.52PPM	GRDS5
65	34.23350598	-119.20777	2017-12-26T17:23:02Z	3.66Ppm	Grdf3
66	34.23035799	-119.202851	2017-12-26T21:05:53Z	3.68Ppm	Grdm8
67	34.23095796	-119.202696	2017-12-26T16:44:29Z	3.72PPM	GRDM7
68	34.23354898	-119.207025	2017-12-26T17:17:25Z	3.78Ppm	Grdg3
69	34.23093298	-119.201335	2017-12-26T17:16:32Z	3.79PPM	GRHO7
70	34.23339802	-119.204857	2017-12-26T18:09:11Z	3.83Ppm	Grdj3
71	34.23204199	-119.20414	2017-12-26T20:00:24Z	3.87Ppm	Grdk5
72	34.232071	-119.203389	2017-12-26T20:16:30Z	3.87Ppm1	Grdl5
73	34.23285697	-119.207115	2017-12-26T18:10:39Z	3.90PPM	Grdg4
74	34.23163597	-119.208008	2017-12-26T19:05:51Z	3.90PPM1	GRDF6
75	34.23206102	-119.202027	2017-12-26T20:49:27Z	3.91Ppm	Grdn5
76	34.23216697	-119.202762	2017-12-26T20:33:27Z	3.96Ppm	Grdm5
77	34.23287801	-119.206412	2017-12-26T18:27:11Z	3.97PPM	Grdh4
78	34.23338402	-119.205578	2017-12-26T17:51:51Z	3.99Ppm	Grdi3
79	34.23217803	-119.205619	2017-12-26T19:27:26Z	4.13Ppm	Grdi5
80	34.23222296	-119.204757	2017-12-26T19:44:11Z	4.14Ppm	Grdj5
81	34.23157403	-119.200508	2017-12-26T17:17:38Z	4.17Ppm	Grdp6
82	34.23336097	-119.201944	2017-12-26T19:16:37Z	4.20Ppm	Grdn3
83	34.23340699	-119.203352	2017-12-26T18:43:59Z	4.24Ppm	Grdl3
84	34.23084296	-119.200469	2017-12-26T17:39:05Z	4.27PPM	GRDP7
85	34.23213	-119.207872	2017-12-26T18:38:15Z	4.28Ppm	Grdf5
86	34.23338402	-119.198215	2017-12-26T20:38:32Z	4.31Ppm	Grds3
87	34.23344102	-119.19898	2017-12-26T20:22:28Z	4.33Ppm	Grdr3
88	34.23344102	-119.200428	2017-12-26T19:49:03Z	4.37Ppm	Grdp3
89	34.23218499	-119.20641	2017-12-26T19:10:54Z	4.40Ppm	Grdh5
90	34.23340699	-119.197505	2017-12-26T20:54:30Z	4.40Ppm1	Grdt3
91	34.23340699	-119.199637	2017-12-26T20:06:30Z	4.41Ppm	Grdq3
92	34.23092896	-119.199877	2017-12-26T17:49:46Z	4.47PPM	GRDQ7

93	34.23337304	-119.204022	2017-12-26T18:26:58Z	4.47Ppm1	Grdk3
94	34.23100297	-119.210757	2017-12-26T18:44:09Z	4.49Ppm	Grdb7
95	34.230936	-119.201919	2017-12-26T17:00:44Z	4.55PPM	GRDN7
96	34.23397997	-119.203355	2017-12-26T17:27:23Z	4.60PPM	GRDL2
97	34.23029797	-119.211365	2017-12-26T18:18:15Z	4.60PPM1	GRDA8
98	34.23022999	-119.210746	2017-12-26T18:21:21Z	4.62PPM	GRDB8
99	34.23347496	-119.201166	2017-12-26T19:32:53Z	4.66Ppm	Grdo3
100	34.23022497	-119.21002	2017-12-26T18:36:53Z	4.69PPM	GRDC8
101	34.23284196	-119.205566	2017-12-26T18:44:32Z	4.69PPM1	Grdl4
102	34.23396899	-119.202617	2017-12-26T17:43:19Z	4.72PPM	GRDM2
103	34.23206002	-119.207161	2017-12-26T18:54:42Z	4.81Ppm	Grdg5
104	34.23228398	-119.210147	2017-12-26T17:48:49Z	5.16Ppm	Grdc5
105	34.23234399	-119.211487	2017-12-26T17:15:46Z	5.19Ppm	Grda5
106	34.230446	-119.20763	2017-12-26T19:23:44Z	5.24PPM	GRDG8
107	34.232805	-119.196689	2017-12-26T16:59:36Z	5.24Ppm1	Grdu4
108	34.232676	-119.198125	2017-12-26T16:25:01Z	5.36Ppm	Grds4
109	34.23029101	-119.207254	2017-12-26T19:38:34Z	5.42PPM	GRDG8
110	34.23092997	-119.209242	2017-12-26T18:57:11Z	5.51Ppm	Grdd7
111	34.23225196	-119.208593	2017-12-26T18:21:40Z	5.65Ppm	Grde5
112	34.23040199	-119.205002	2017-12-26T20:26:05Z	5.69PPM	GRDJ8
113	34.23031901	-119.205684	2017-12-26T20:09:45Z	5.74PPM	GRDI8
114	34.230203	-119.206341	2017-12-26T19:54:46Z	5.77PPM	GRDH8
115	34.23044499	-119.204034	2017-12-26T20:41:18Z	5.82PPM	GRDK8
116	34.23030199	-119.209333	2017-12-26T18:52:27Z	5.83PPM	GRDD8
117	34.23267298	-119.197454	2017-12-26T16:42:57Z	5.92Ppm	Grdt4
118	34.23035304	-119.203493	2017-12-26T20:57:20Z	6.05PPM	GRDL8
119	34.233913	-119.204063	2017-12-26T17:13:54Z	6.43PPM	GRDK2
120	34.23227401	-119.210876	2017-12-26T17:32:35Z	6.63Ppm	Grdb5
121	34.23341797	-119.202614	2017-12-26T19:00:06Z	6.63Ppm1	Grdm3
122	34.23341998	-119.206295	2017-12-26T17:34:59Z	7.45Ppm	Grdh3

WIND SPEED & DIRECTION CHART ROLL

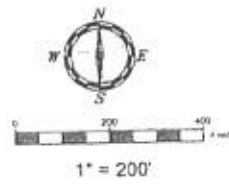


SANTA CLARA RIVER



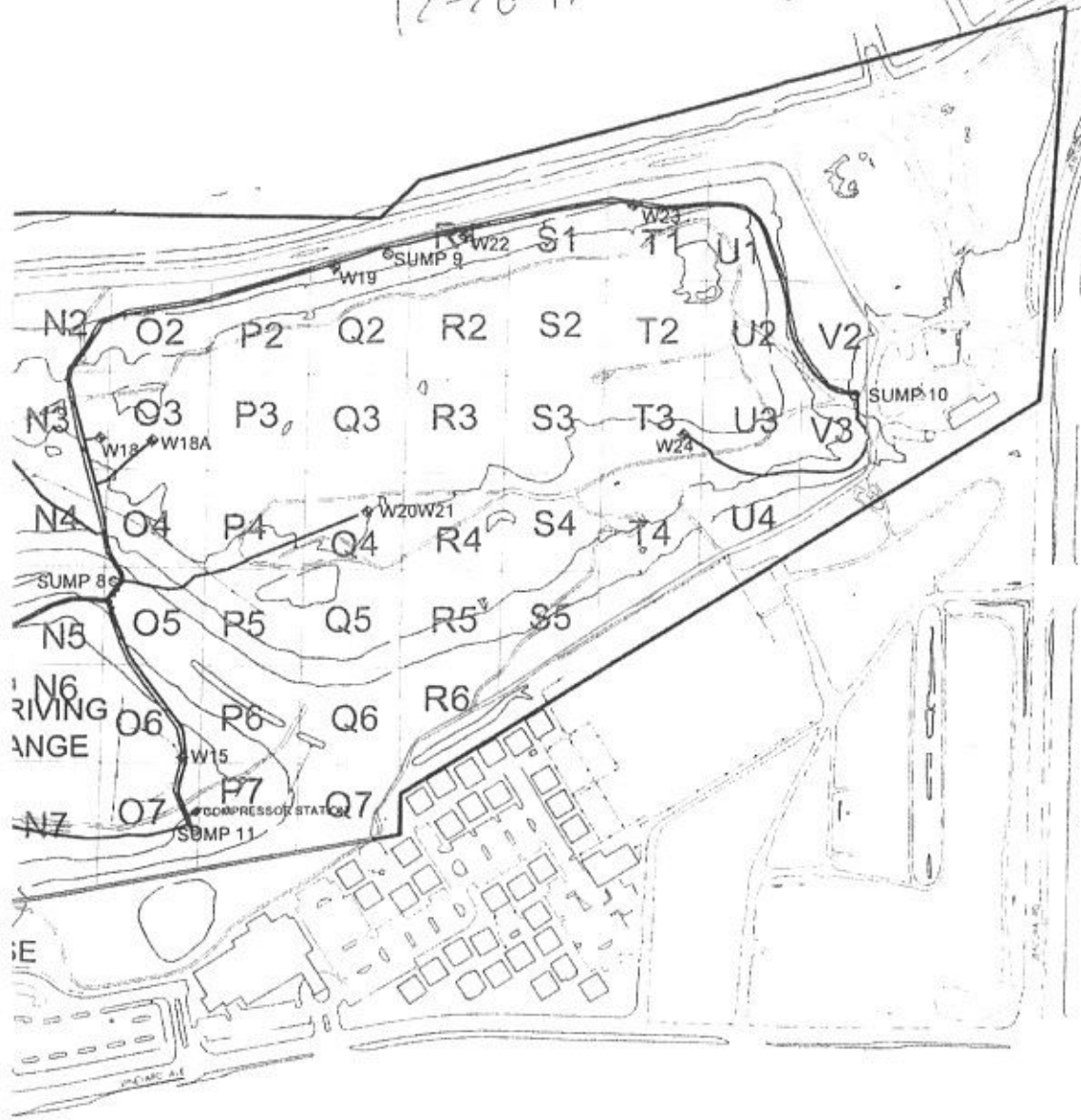
LEGEND

- ◆ LFG WELL LOCATION (SURVEYED)
- ABOVE GROUND LFG HEADER
- BURIED LFG HEADER
- COMPRESSED AIR/CONDENSATE LINES (TO AND FROM SUMP)
- CONDENSATE SUMP WITH PUMP
- CAMERA ACCESS VAULT
- ⊕ BUTTERFLY VALVE WITH ACCESS VAULT (FOR AIR/CONDENSATE)
- MAJOR CONTOUR
- MINOR CONTOUR
- PROPERTY LINE



12-22-17
12-26-17

TVA
4TH QTR 2017



REVISIONS	BY

VENTURA REGIONAL SANITATION DISTRICT
 1001 Partridge Drive, Suite 150
 Ventura, California 93003-5562
 Date: 01/07/2014
 Drawn By: JJW

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**SANTA CLARA LANDFILL
 SWEEP GRID**
 Topography date: December 3, 2009 by GPSI
 Updated June 21, 2010 by VRSD

DWG: 20131230_SANTA
 CLARA MONITORING
 GRID.dwg
 FILE: SOLID WASTE/RIVER
 SITES
 Date: JAN 07 2014
 SHEET OF

**VCAPCD Rule 50, Opacity
Annual Compliance Survey**

Survey Information:

By: Ricardo Ontiveros
Date: June 6, 2017
Time: 9:00 AM to 9:30 AM
Emissions Unit: Oxnard Landfill Flare

Verification: On the above date I observed no visible emissions (smoke) for a period or periods aggregating more than three (3) minutes during the time observed (0.5 hour).



RICARDO ONTIVEROS – ENVIRONMENTAL RESOURCE ANALYST

**VCAPCD Rule 64.B.1, Sulfur Content
Annual Compliance Survey**

Survey Information:

By: David Thomas

Date: June 6, 2017

Emissions Unit: Oxnard Landfills Flare #1

Verification: On the above date, one (1) Tedlar bag sample was collected and analyzed by AAC Consulting Inc. Laboratory in Ventura, Ca. for hydrogen sulfide, and other compounds, at the 12" header leading to the Coastal Flare #1. This sample was part of the Coastal Flare 2017 Annual Methane Destruction Efficiency source testing requirement. The hydrogen sulfide for this sample was 9.99 ppm.



DAVID F THOMAS – ENVIRONMENTAL RESOURCE ANALYST

**Oxnard Landfills
2017
Monthly Throughput**

<i>Month</i>	<i>LFG scf</i>	<i>HHV</i>	<i>CH4 Average</i>
Jul	30,697,368	339	32.3
Aug	30,761,214	338	32.2
Sep	31,302,320	341	32.4
Oct	31,464,706	339	32.3
Nov	28,297,670	340	32.4
Dec	28,807,139	338	32.2

<i>Blower Hours</i>	
<i>Blower 1</i>	<i>Blower 2</i>
742	0
730	0
720	0
744	0
721	0
736	0
4,393	0

	<i>Total LFG</i>	<i>Average HHV</i>	<i>MMbtu</i>
2017	181,330,417	339	61,514

